

STATE OF MAINE DEPARTMENT OF TRANSPORTATION



BARING WASHINGTON COUNTY ROUTES 1\9 & 191 NH-1728(900)E

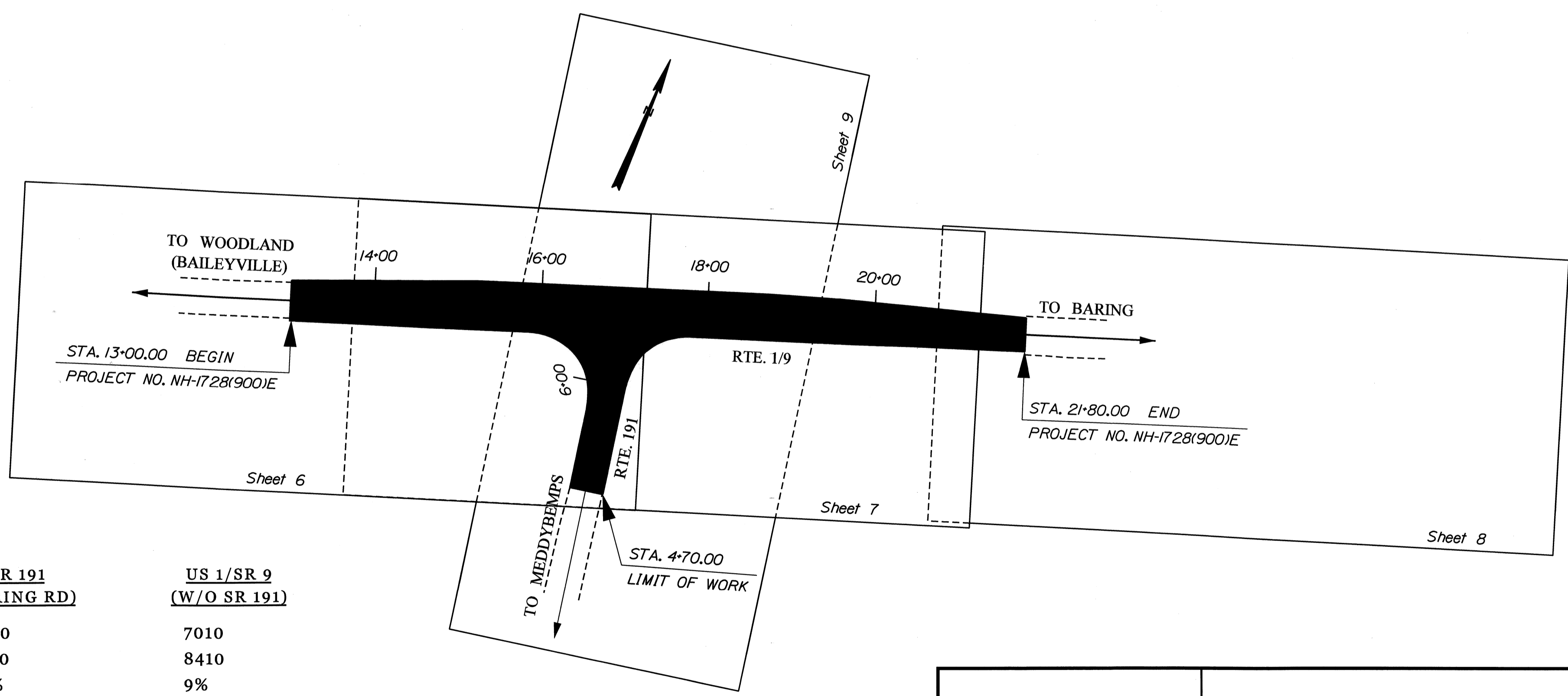
PROJECT LENGTH : 0.17 MILE

PLAN LEGEND

Town, County, State	Centerline-Existing	Centerline-Proposed
Property Lines	Travelway-Existing	Travelway-Proposed
R/W Lines-Existing	Railroad	
R/W Lines-Proposed	Catch Basins	Existing Proposed
Culvert-Existing	Manholes	Existing Proposed
Culvert Proposed	Proposed Underdrain	
Curbing Existing	Proposed Ditch	
Curbing Proposed	Existing Ditch	
Type 1	Utility Poles	Existing Proposed
Type 3	Fire Hydrants	Existing Proposed
Type 5	Existing Water Line	
Outline of Bodies of Water	Existing San. Sewer	
Ledge	Existing San. Sewer Manhole	
Buildings	Guardrail-Existing	
Trees	Guardrail-Proposed	
Tree Line	Guardrail-Cable, Other	
Clearing Limit Line		

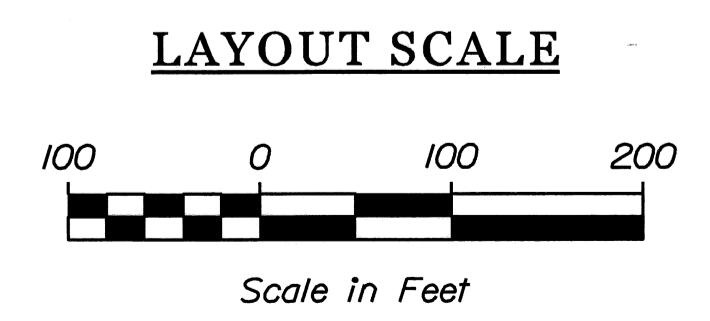
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TRAFFIC DATA

	US 1/SR 9 (E/O SR 191)	SR 191 (BARING RD)	US 1/SR 9 (W/O SR 191)
Current (2012) AADT	7130	1480	7010
Future (2032) AADT	8560	1780	8410
DHV - % of AADT	9%	10%	9%
Design Hour Volume	790	174	768
% Heavy Trucks (AADT)	14%	17%	14%
% Heavy Trucks (DHV)	13%	17%	13%
Directional Distribution (DHV)	56%	59%	56%
18 kip Equivalent P 2.0	1024	277	1023
18 kip Equivalent P 2.5	975	264	975
Design Speed (mph)	50	35	50
Functional Class:	NHS, Principal Arterial	Major Collector	NHS, Principal Arterial



PROJECT LOCATION:	INTERSECTION OF ROUTE 1/9 AND ROUTE 191
PROGRAM AREA:	HIGHWAY PROGRAM
SCOPE OF WORK:	INTERSECTION IMPROVEMENT WITH ADDITION OF BYPASS LANE

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
	<i>[Signature]</i>	2/23/12
	COMMISSIONER:	
	CHIEF ENGINEER:	

<i>[Signature]</i>	SIGNATURE
10415	P.E. NUMBER
2-16-12	DATE

PROJECT INFORMATION

PROGRAM	HIGHWAY PROGRAM
PROJECT MANAGER	P. MACDONALD
DESIGNER	E. ADARDE-KNIT
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

WIN 17289.00 NH-1728(900)E

BARING
ROUTES 1\9 & 191
TITLE SHEET

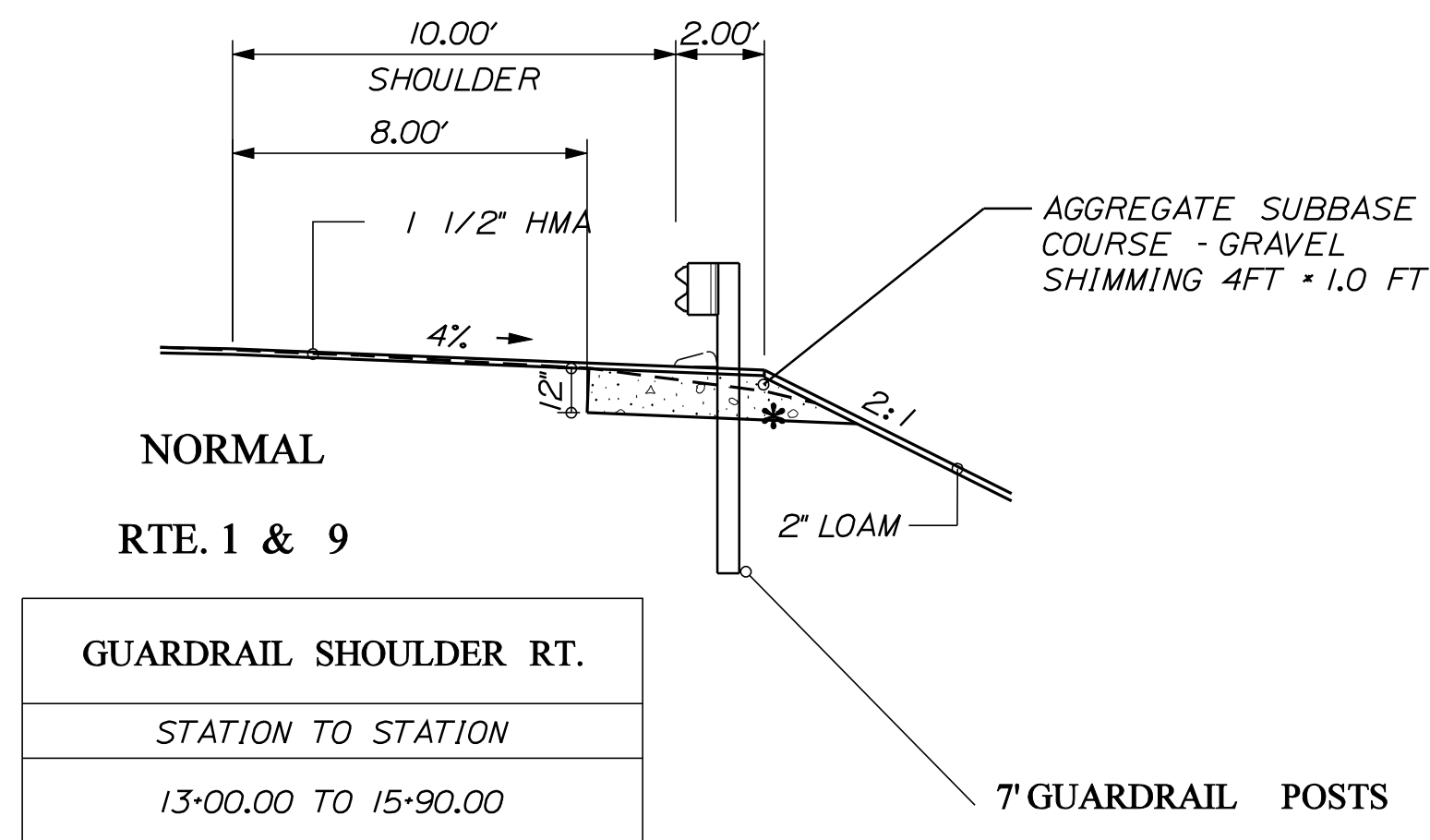
SHEET NUMBER
1
OF 25

Date: 2/22/2012

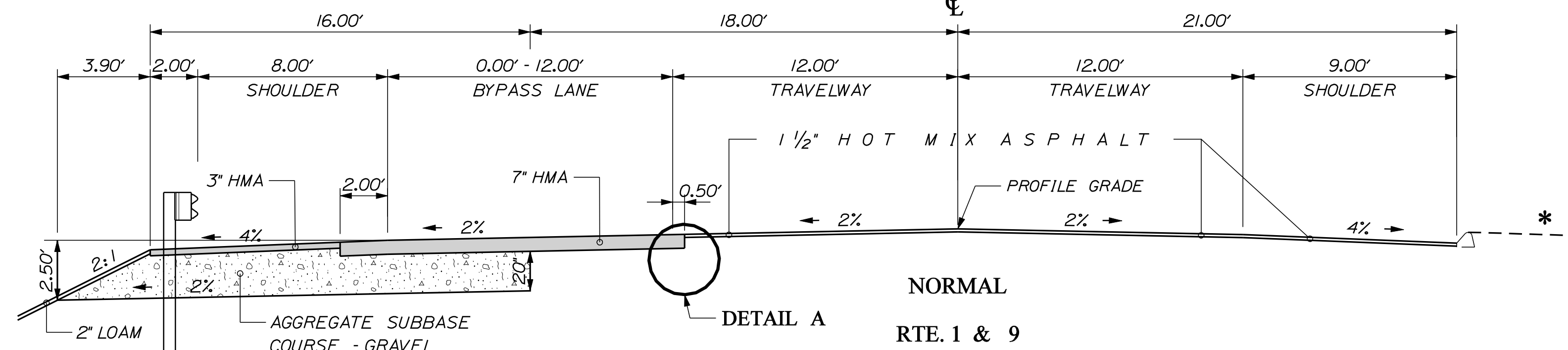
Username: rhobe.moulton

Division: HIGHWAY

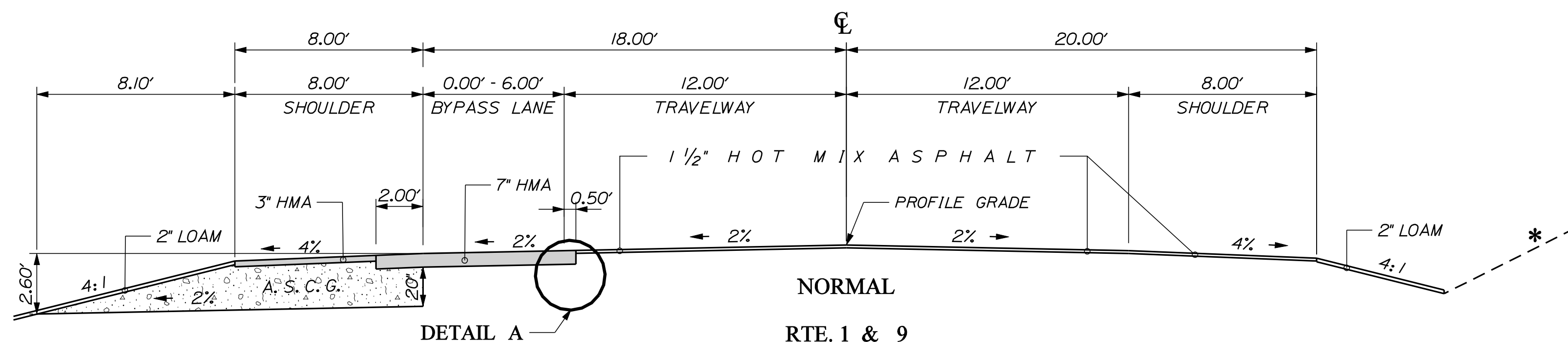
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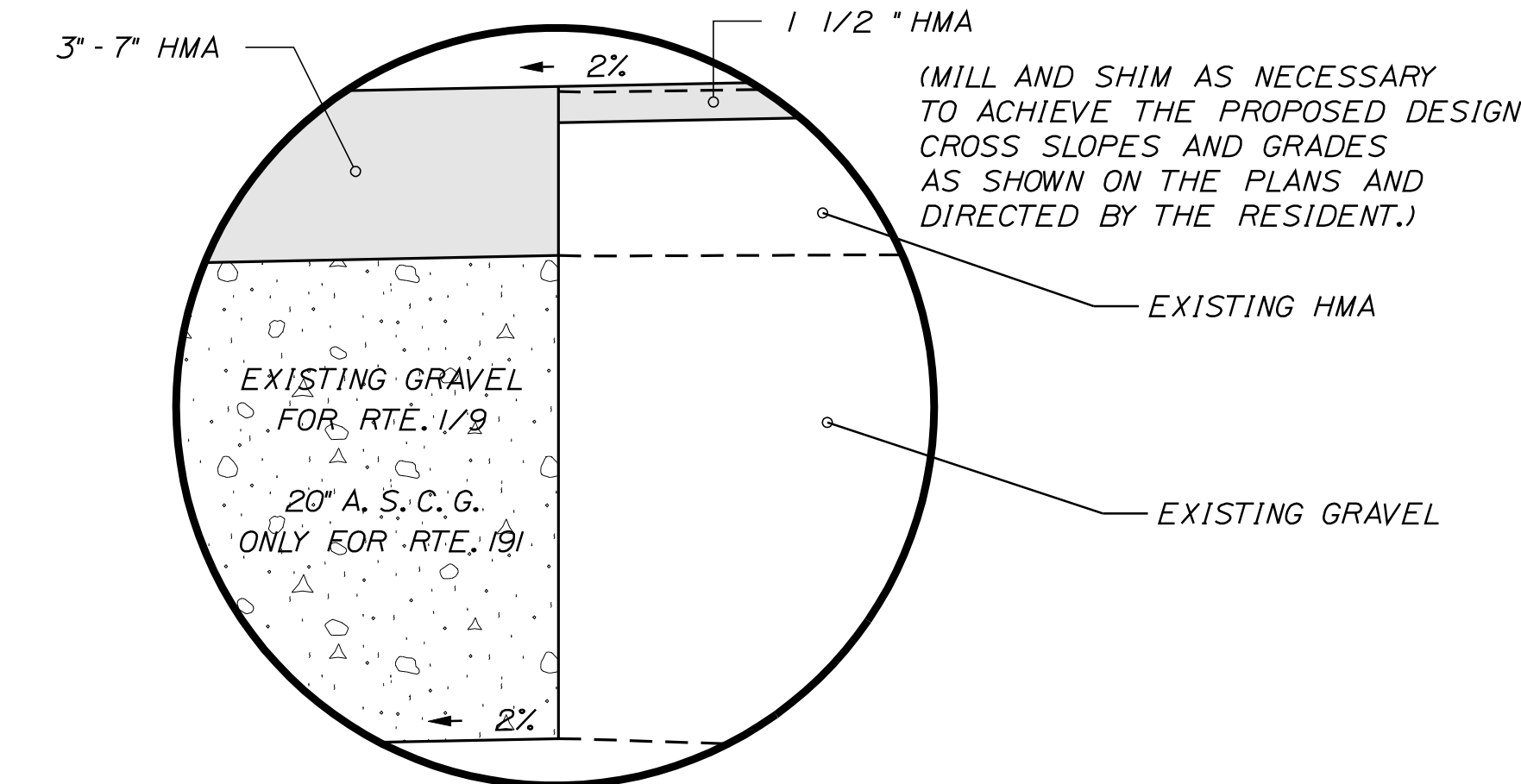
GUARDRAIL SHOULDER RT.
STATION TO STATION
13+00.00 TO 15+90.00



GUARDRAIL SHOULDER LT. A. S. C. G. = 81.16 CY/100 LF	12' BYPASS LANE 20' A. S. C. G. = 6.17 CY/100 LF/FT OF WIDTH	12', 12' TRAVEL LANES	9' SHOULDER RT.
STATION TO STATION	STATION TO STATION	STATION TO STATION	STATION TO STATION
10' - 8' 13+00 TO 15+25 8' 15+25 TO 19+55	6' - 12' 14+13 TO 15+25 12' 15+25 TO 19+25 12' - 6 19+25 TO 20+68	13+00 TO 19+94	15+90 TO 19+94



8' SHOULDER LT. A. S. C. G. = 84.65 CY/100 LF	0'-6' BYPASS LANE	12', 12' TRAVEL LANES	8' SHOULDER RT.
STATION TO STATION	STATION TO STATION	STATION TO STATION	STATION TO STATION
19+55 TO 21+80	0' - 6' 13+00 TO 14+13 6' - 0' 20+68 TO 21+80	19+94 TO 21+80	19+94 TO 21+80

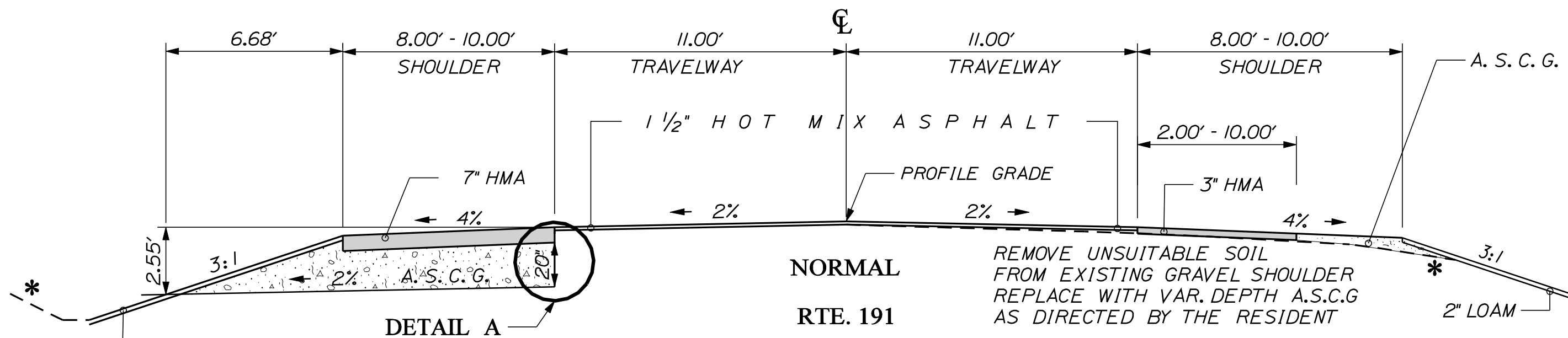


DETAIL A

* - - - - : EXISTING GROUND

NOTE:

1. THE PAVEMENT, BASE AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. CROWNS FOR NORMAL SECTIONS FOR ALL COURSES OF SUBBASE AND PAVEMENT SHALL BE STRAIGHT.
3. THE GRAVEL QUANTITY CALCULATION IS BASED ON A 2" LOAM OR DIRTY BORROW DEPTH. THE ACTUAL DEPTH MAY VARY. SEE THE GENERAL NOTES.
4. THE ALGEBRAIC DIFFERENCE BETWEEN THE SHOULDER AND TRAVELWAY CROSS SLOPES "ROLLOVER" SHALL NOT EXCEED 8%.
5. THE STATIONING SHOWN UNDER EACH TYPICAL IS APPROXIMATE.
6. MILL AND SHIM AS NECESSARY TO ACHIEVE THE PROPOSED DESIGN CROSS SLOPES AND GRADES AS SHOWN ON THE PLANS AND DIRECTED BY THE RESIDENT. SHIM SHALL BE INCIDENTAL TO THE MILLING
7. PAYMENT FOR MILLING IS TO BE MADE UNDER ITEM NO. 202 - 202



8'-10' SHOULDER A. S. C. G. = 8.54 CY/100 LF/FT OF WIDTH	11', 11' TRAVEL LANES	8'-10' SHOULDER
STATION TO STATION	STATION TO STATION	STATION TO STATION
8' 5+50 TO 5+60.90 LT. 10' 5+50 TO 5+91+56 RT.	4+70 TO 5+50	2'-8' 4+70 TO 5+50 LT. 2'-10' 4+70 TO 5+50 RT.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
NH-1728(900)E
HIGHWAY PLANS
PIN 17285.00

PROJ. MANAGER	P. MACDONALD	DATE	JUN 2011
DESIGNED	E. A. KINTI	BY	BT TRAN
CHECKED		DESIGNED	TAILED02
DESIGNED	TAILED03	REVISIONS	1
REVISIONS	2	REVISIONS	3
REVISIONS	4	REVISIONS	4
FIELD CHANGES			

SIGNATURE
P.E. NUMBER
DATE

BARING ROUTES 1/9 & 191

TYPICAL SECTIONS

SHEET NUMBER
2
OF 25

NOT TO SCALE

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.202	REMOVING PAVEMENT SURFACE	4528	SY
203.20	COMMON EXCAVATION	1214	CY
203.24	COMMON BORROW	487	CY
203.25	GRANULAR BORROW	25	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	1217	CY
403.210	HOT MIX ASPHALT 9.5 MM HMA SURFACE	540	T
403.209	HOT MIX ASPHALT 9.5 MM HMA (SIDEWALKS, DRIVES, INCIDENTALS)	5	T
403.213	HOT MIX ASPHALT 12.5 MM BASE	594	T
409.15	BITUMINOUS TACK COAT - APPLIED	326	G
504.07	CONCRETE PIPE TIES	2	GP
603.41	24 INCH REINFORCED CONCRETE PIPE CLASS IV	8	LF
606.23	GUARDRAIL TYPE 3C - SINGLE RAIL	576	LF
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	4	EA
606.356	UNDERDRAIN DELINEATOR POST	2	LF
606.365	GUARDRAIL REMOVE, MODIFY, AND RESET TYPE 3B TO 3C	287	EA
606.79	GUARDRAIL 350 FLARED TERMINAL	2	EA
609.31	CURB TYPE 3	86	LF
610.08	PLAIN RIPRAP	16	CY
613.319	EROSION CONTROL BLANKET	270	SY
615.07	LOAM	125	CY
618.1401	SEEDING METHOD NUMBER 2	7	UN
618.1411	SEEDING METHOD NUMBER 3	15	UN
619.1201	MULCH	22	UN
627.733	WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	5,500	LF
627.75	WHITE OR YELLOW PAVEMENT AND CURB MARKING	235	SF
627.76	TEMPORARY PVMT. MARK LINE, W OR YELLOW	1	LS
629.05	HAND LABOR, STRAIGHT TIME	10	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	10	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	10	HR
631.18	CHAIN SAW RENTAL (INCLUDING OPERATOR)	2	HR
631.22	FRONT END LOADER (INCLUDING OPERATOR)	10	HR
631.32	CULVERT CLEANER (INCLUDING OPERATOR)	10	HR
639.18	FIELD OFFICE TYPE A	0.8	EA
643.60	FLASHING BEACON AT: RTE 1/9 & RTE 191	1	LS
652.311	TYPE II BARRICADE	3	EA
652.33	DRUM	25	EA
652.34	CONE	50	EA
652.35	CONSTRUCTION SIGNS	440	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	1	LS
652.38	FLAGGER	1,440	HR
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS

EARTHWORK SUMMARY

COMMON EXCAVATION (FROM CROSS SECTIONS)	1,006
EARTH FROM DRIVES, OLD ROAD, ETC.	25
GRUBBING IN FILL	184
TOTAL COMMON EXCAVATION	1,214

FILL FOR BORROW CALCULATIONS

COMMON FILL (FROM CROSS SECTIONS)	1,063
FILL FOR DRIVES	18
GRUBBING IN FILL	184
TOTAL FILL	1,265

ROCK EXCAVATION FOR ESTIMATE

ROCK EXCAVATION (FROM CROSS SECTIONS)	0
ROCK EXCAVATION (BOULDERS)	0
TOTAL ROCK EXCAVATION	0

AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS

(1) TOTAL COMMON EXCAVATION	1,214
DEDUCTIONS:	
GRUBBING IN CUT	0
GRUBBING IN FILL	184
LOAM SALVAGE IN CUT	0
PAVEMENT SALVAGE (CUT & FILL)	40
(2) TOTAL DEDUCTIONS	224
TOTAL AVAILABLE COMMON EXCAVATION (1) MINUS (2)	991
TOTAL AVAILABLE STRUCT. EXCAVATIONS (USUALLY UNDERDRAIN ONLY)	0
TOTAL AVAILABLE NON-ROCK EXCAVATION	991

COMPUTATION OF WASTE MATERIAL

GRUBBING IN CUT	0
GRUBBING IN FILL	184
TOTAL WASTE MATERIAL TO BE WASTED	184

COMPUTATION FOR COMMON BORROW FOR ESTIMATE

(3)TOTAL FILL		1,265
TOTAL AVAIL. NON-ROCK EXCAV.	991 x 0.85 =	842
TOTAL AVAIL. ROCK EXCAV.	0 x 1.33 =	0
(4)TOTAL AVAILABLE EXCAVATION		842
BORROW NEEDED = TOTAL FILL MINUS TOTAL AVAILABLE EXCAVATION		<u>423</u>
COMMON BORROW =	423 x 1.15 =	487

STATE OF MAINE DEPARTMENT OF TRANSPORTATION NH-1728(900)E	SIGNATURE	P.E. NUMBER	DATE	PROJ. MANAGER	P. MACDONALD	BY	E. A. KRITZ	DATE	JUN 2011						
				CHECKED-REVIEWED	E. A. KRITZ	DESIGN-DETAILED		DESIGN-DETAILED		REVISIONS 1		REVISIONS 2		REVISIONS 3	
BARING ROUTES 1/9 & 191		ESTIMATED QUANTITIES		SHEET NUMBER											
				3											
				OF 25											

Date: 3/7/2012

Username: rhobe.moulton

Division: HIGHWAY

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GENERAL NOTES

1. THE UTILITIES INVOLVED IN THIS CONTRACT ARE AS FOLLOWS:
 A. EASTERN MAINE ELECTRIC COOP
 B. FAIRPOINT COMMUNICATION

2. ALL UTILITY FACILITIES SHALL BE ADJUSTED BY THE RESPECTIVE UTILITIES UNLESS OTHERWISE NOTED.

3. CLEARING LIMITS SHALL BE 10' BEYOND AND PARALLEL TO THE CONSTRUCTION SLOPE LINES OR AS SHOWN ON THE PLANS UNLESS OTHERWISE AUTHORIZED BY THE RESIDENT.

4. ALL CLEARING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE. THE ACTUAL LINES FOR CLEARING SHALL BE ESTABLISHED IN THE FIELD BY THE CONTRACTOR AS INDICATED ON THE PLANS AND APPROVED BY THE RESIDENT.

5. GRUBBING IN FILL AREAS HAS BEEN SHOWN ON THE CROSS SECTIONS AND THE QUANTITIES NOTED. THESE LIMITS ARE APPROXIMATE AND HAVE BEEN USED FOR ESTIMATING PURPOSES ONLY. ACTUAL GRUBBING LIMITS MAY VARY BASED ON FIELD CONDITIONS AS DIRECTED BY THE RESIDENT ESTIMATED GRUBBING DEPTHS ARE 9 INCHES IN FIELD AREAS AND 15 INCHES IN WOODED AREAS

6. PRIOR TO REMOVING ANY PAVEMENT OR PLACING ANY SHIM PAVEMENT, THE ROADWAY WILL BE INSPECTED FOR POSSIBLE SUBSURFACE BOULDERS, WHICH WILL BE REMOVED AS DIRECTED BY THE RESIDENT. PAYMENT WILL BE MADE UNDER APPROPRIATE CONTRACT RENTAL ITEMS. BACKFILL WITH MATERIAL CONSISTENT WITH SURROUNDING MATERIAL UP TO SUBGRADE. PLACE AGGREGATE SUBBASE COURSE GRAVEL FROM SUB-GRADE TO FINISH GRAVEL GRADE AND COMPACT ALL MATERIAL. ANY MATERIAL AND EQUIPMENT USED TO BACKFILL HOLES AFTER REMOVAL OF BOULDERS WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT ITEMS.

7. DRIVEWAY FILL SIDE SLOPES SHALL BE THE SAME AS THE NON-GUARDRAIL FILL SLOPES UNLESS OTHERWISE NOTED ON THE PLANS.

8. ALL WASTE MATERIAL NOT USED ON THE PROJECT SHALL BE DISPOSED OF OFF THE PROJECT IN WASTE AREAS APPROVED BY THE RESIDENT.

9. REQUIRED DITCH PROTECTION SHOWN ON THE PLANS OR IN THE CONSTRUCTION NOTES IS FOR ESTIMATING PURPOSES ONLY. THE ACTUAL TYPE AND LOCATION OF DITCH PROTECTION MAY BE ALTERED BY THE RESIDENT.

10. IF FOUNDATION MATERIAL IS REQUIRED UNDER CULVERTS, IT SHALL MEET THE REQUIREMENTS FOR GRANULAR BORROW - UNDERWATER BACKFILL AND WILL PAID FOR AS GRANULAR BORROW.

11. GRANULAR BORROW USED TO BACKFILL MUCK EXCAVATION OR IN LOW WET AREAS TO 1' ABOVE WATER LEVEL OR OLD GROUND SHALL MEET REQUIREMENTS FOR GRANULAR BORROW UNDERWATER BACKFILL.

12. EXISTING INSLOPES STEEPER THAN 2:1 IN PROPOSED FILL AREAS SHALL BE BENCHED AS DIRECTED BY THE RESIDENT.

13. RESIDENTIAL PAVED ENTRANCES SHALL BE CONSTRUCTED WITH: 2" HOT MIX ASPHALT AND 12" AGGREGATE SUBBASE COURSE GRAVEL.

14. UNPAVED ENTRANCES SHALL BE CONSTRUCTED WITH :
 14" AGGREGATE SUBBASE COURSE GRAVEL OR
 11" AGGREGATE SUBBASE COURSE GRAVEL AND
 3" UNTREATED AGGREGATE SURFACE COURSE
 UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE RESIDENT

15. A 3' PAVED LIP SHALL BE PLACED AT ALL GRAVEL ENTRANCES UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE RESIDENT.

16. ANY NECESSARY CLEANING OF EXISTING PAVEMENT PRIOR TO PAVING SHALL BE INCIDENTAL TO THE RELATED PAVING ITEMS.

17. PAVEMENT CUT LINES SHALL BE NEAT, CLEAN AND STRAIGHT AS DIRECTED BY THE RESIDENT PAYMENT FOR CUTTING OF EXISTING PAVEMENT SHALL BE INCIDENTAL TO ITEM 403

18. EXISTING CULVERTS TO REMAIN SHALL BE CLEANED AS DIRECTED BY THE RESIDENT. PAYMENT WILL BE MADE UNDER ITEM 631.32 CULVERT CLEANER (INCLUDING OPERATOR).

19. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT.

20. INLETS AND OUTLETS OF ALL CULVERTS WITHIN THE WORK AREA SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.

21. EXISTING ABANDONED WATER MAINS BROKEN BY THE CONTRACTOR DURING CONSTRUCTION SHALL HAVE THE ENDS PLUGGED WITH BRICK AND MORTAR. COST FOR ALL LABOR AND MATERIAL WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO DIRECT PAYMENT WILL BE MADE.

22. GUARDRAIL END TREATMENTS SHALL BE INSTALLED CONCURRENTLY WITH THE PLACEMENT OF EACH SECTION OF BEAM GUARDRAIL.

23. ALL EXISTING GUARDRAIL SHALL BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR. REMOVAL AND DISPOSAL SHALL BE CONSIDERED INCIDENTAL TO THE GUARDRAIL ITEMS.

24. HOLES CREATED BY GUARDRAIL REMOVAL WILL BE FILLED AND COMPACTED WITH APPROVED MATERIALS AS DIRECTED BY THE RESIDENT . PAYMENT TO BE CONSIDERED INCIDENTAL TO THE GUARDRAIL ITEMS.

25. TWO REFLECTORIZED FLEXIBLE G.R. MARKERS (ITEM 606.353) WILL BE INSTALLED AT EACH GUARDRAIL END.

26. A DELINEATOR POST (ITEM 606.356) WILL BE INSTALLED AT THE END OF EACH SECTION OF BITUMINOUS CURB.

27. CONNECTIONS FOR PROPOSED GUARDRAIL TO EXISTING GUARDRAIL WILL BE CONSIDERED INCIDENTAL TO ITEM 606.

28. BACKING UP BITUMINOUS CURB IS INCIDENTAL TO THE CURB ITEMS. IN AREAS WHERE NEW BITUMINOUS CURB IS DESIGNATED TO REPLACE EXISTING, THE REMOVAL OF THE OLD BITUMINOUS CURB SHALL BE INCIDENTAL TO THE NEW CURB.

29. LOAM HAS BEEN ESTIMATED FOR DISTURBED SLOPE AREAS. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS NOTED ON THE PLANS OR DESIGNATED BY THE RESIDENT.

30. SEEDING METHOD NO. 1 SHALL BE UTILIZED ON ALL LAWNS AND DEVELOPED AREAS; SEEDING METHOD NO. 2 SHALL BE UTILIZED ON ALL NON-GUARDRAIL SLOPES. SEEDING METHOD NO. 3 SHALL BE UTILIZED ON ALL GUARDRAIL FILL SLOPES. ON LONG NON-GUARDRAIL BACKSLOPES, SEEDING METHOD NO. 3 MAY BE USED INSTEAD OF METHOD NO. 2 IF NOTED OR DIRECTED BY THE RESIDENT.

31. LOAM SHALL BE PLACED TO A NOMINAL DEPTH OF 4 INCHES IN LAWN AREAS AND 2 INCHES IN ALL OTHER AREAS UNLESS OTHERWISE NOTED OR DIRECTED.

32. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING MAILBOXES TO ENSURE THAT THE MAIL WILL BE DELIVERABLE. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK; IT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

33. ANY DAMAGE TO THE SLOPES CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL, OR OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT. ALL WORK, EQUIPMENT, AND MATERIALS REQUIRED TO MAKE REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE.

34. A COPY OF THE GEOTECHNICAL REPORT FOR THIS PROJECT CAN BE FOUND WITH THE PROJECT BID DOCUMENTS ON THE MAINEDOT WEBSITE OR BY CONTACTING THE PROJECT MANAGER, PAUL MACDONALD, AT 207-624-3330.

35. AREAS REQUIRING FILL ON THE PROJECT WILL COME FROM SUITABLE EXCAVATION FROM EXCAVATION AREAS.

36. NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.

37. "UNDETERMINED LOCATIONS" SHALL BE DETERMINED BY THE RESIDENT.

38. STATIONS REFERENCED ARE APPROXIMATE.

39. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION'S BEST MANAGEMENT PRACTICES FOR EROSION CONTROL & SEDIMENT CONTROL, FEBRUARY, 2008.

Date: 2/22/2012

Username: rhobe.moulton

Division: HIGHWAY

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STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 NH-1728(900)E
 PIN 17289.00
 HIGHWAY PLANS

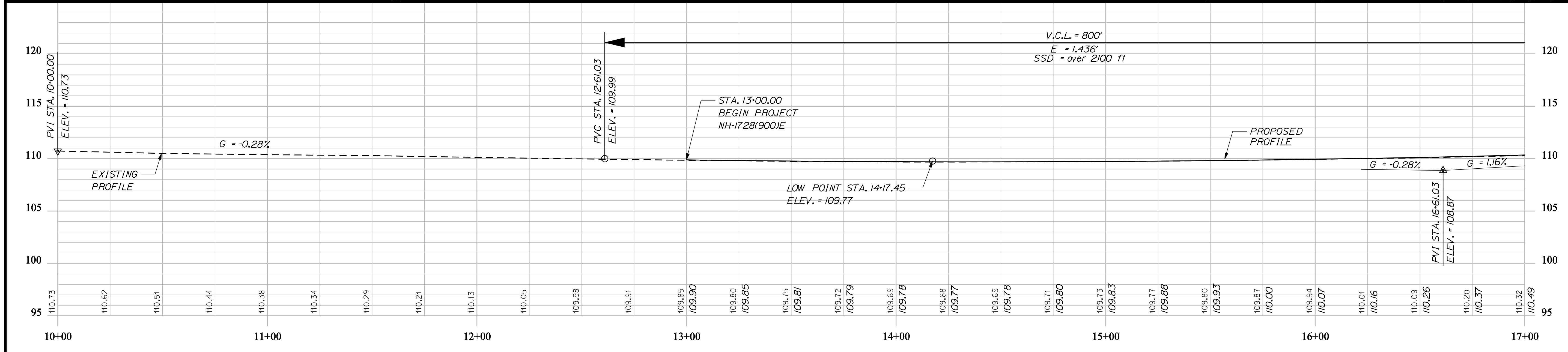
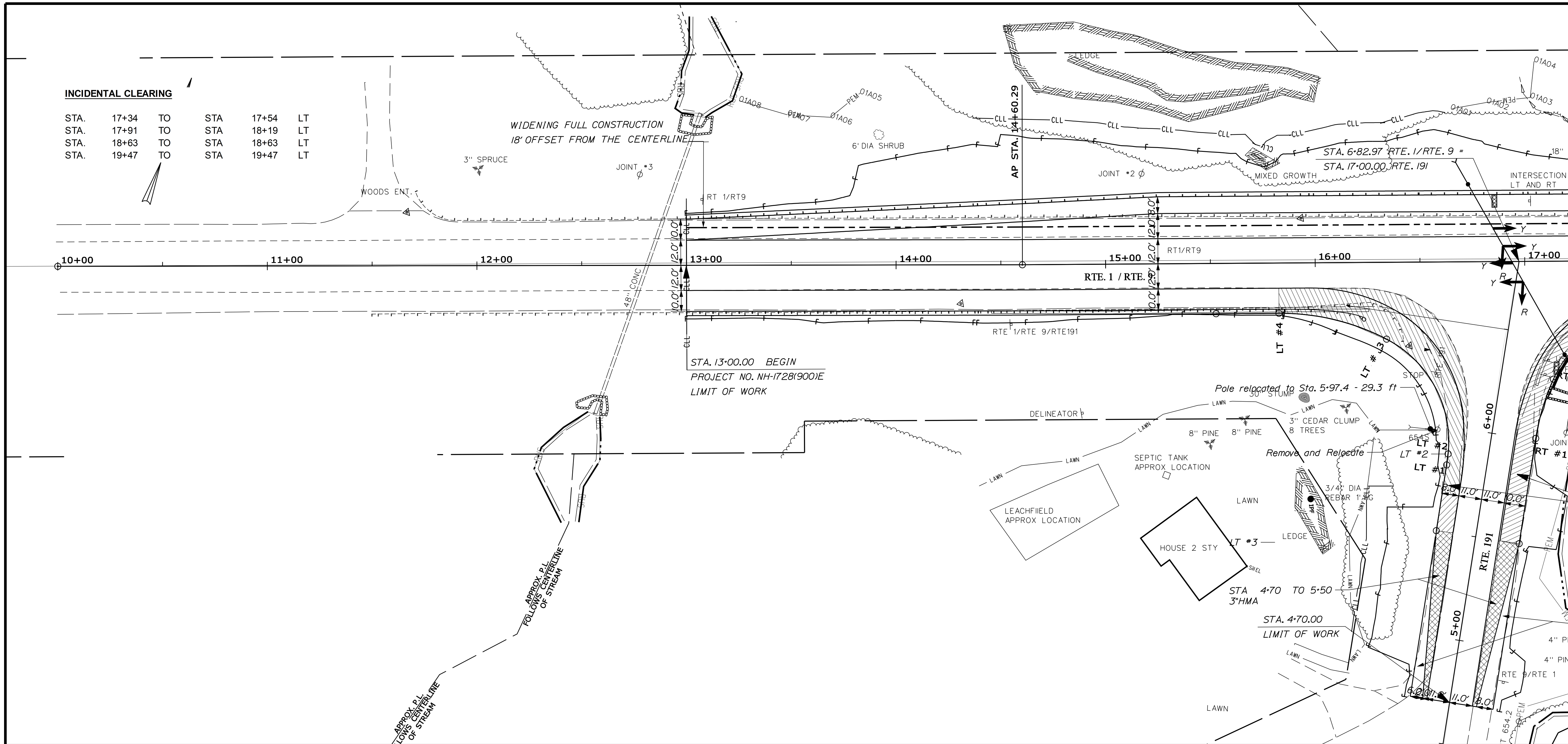
PROJ. MANAGER	P. MACDONALD	BY	E. A. KRITZ	DATE	JUN 2011
DESIGN-DETAILED	E. A. KRITZ	CHECKED-REVIEWED	E. A. KRITZ	SIGNATURE	
DESIGN-DETAILED		DESIGN-DETAILED		P.E. NUMBER	
REVISIONS 1		REVISIONS 1		DATE	
REVISIONS 2		REVISIONS 2			
REVISIONS 3		REVISIONS 3			
REVISIONS 4		REVISIONS 4			
FIELD CHANGES					

BARING
 ROUTES 1/9 & 191
 GENERAL NOTES

SHEET NUMBER
 4
 OF 25

INCIDENTAL CLEARING

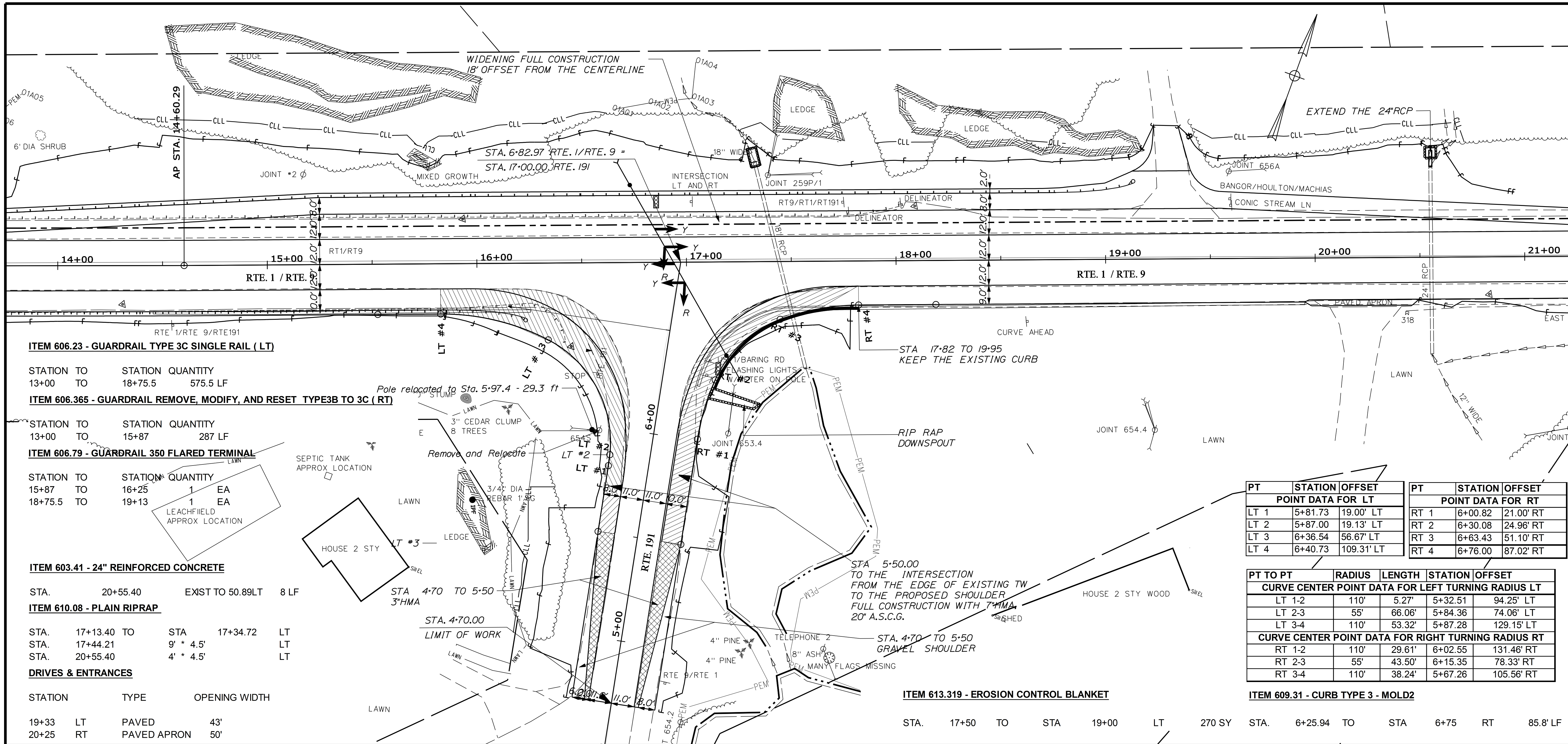
STA. 17+34	TO	STA. 17+54	LT
STA. 17+91	TO	STA. 18+19	LT
STA. 18+63	TO	STA. 18+63	LT
STA. 19+47	TO	STA. 19+47	LT



STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
NH-1728(900)E		PIN 17289.00	
HIGHWAY PLANS			
BARING	ROUTES 1/9 & 191	PLANS	
SHEET NUMBER		6	
OF 25		STA. 10+00.00 TO STA. 17+00.00	

PROJ. MANAGER	BY	DATE	SIGNATURE
P. MACDONALD	E. A. KRITZ	JUN 2011	
DESIGN DETAILED	E. A. KRITZ	JUN 2011	
CHECKED-REVIEWED			
DESIGN DETAILED			
DESIGN DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

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 Division: HIGHWAY
 Username: rhobe.moulton
 Date: 2/22/2012



ITEM 606.23 - GUARDRAIL TYPE 3C SINGLE RAIL (LT)

STATION TO	STATION	QUANTITY
13+00	TO 18+75.5	575.5 LF

ITEM 606.365 - GUARDRAIL REMOVE, MODIFY, AND RESET TYPE3B TO 3C (RT)

STATION TO	STATION	QUANTITY
13+00	TO 15+87	287 LF

ITEM 606.79 - GUARDRAIL 350 FLARED TERMINAL

STATION TO	STATION	QUANTITY	EA
15+87	TO 16+25	1	EA
18+75.5	TO 19+13	1	EA

ITEM 603.41 - 24" REINFORCED CONCRETE

STA.	QUANTITY
20+55.40	EXIST TO 50.89LT 8 LF

ITEM 610.08 - PLAIN RIPRAP

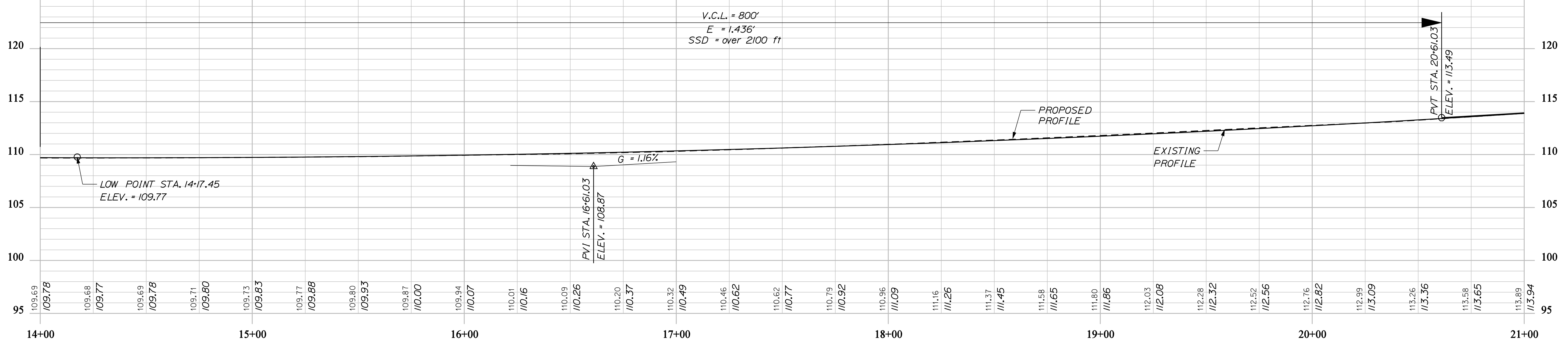
STA.	TO	STA.	QUANTITY	LT
17+13.40	TO	17+34.72	9' * 4.5'	LT
17+44.21	TO	17+34.72	4' * 4.5'	LT
20+55.40	TO	17+34.72	4' * 4.5'	LT

DRIVES & ENTRANCES

STATION	TYPE	OPENING WIDTH
19+33	LT PAVED	43'
20+25	RT PAVED APRON	50'

PT	STATION	OFFSET	PT	STATION	OFFSET
POINT DATA FOR LT					
LT 1	5+81.73	19.00' LT	RT 1	6+00.82	21.00' RT
LT 2	5+87.00	19.13' LT	RT 2	6+30.08	24.96' RT
LT 3	6+36.54	56.67' LT	RT 3	6+63.43	51.10' RT
LT 4	6+40.73	109.31' LT	RT 4	6+76.00	87.02' RT

PT TO PT	RADIUS	LENGTH	STATION	OFFSET
CURVE CENTER POINT DATA FOR LEFT TURNING RADIUS LT				
LT 1-2	110'	5.27'	5+32.51	94.25' LT
LT 2-3	55'	66.06'	5+84.36	74.06' LT
LT 3-4	110'	53.32'	5+87.28	129.15' LT
CURVE CENTER POINT DATA FOR RIGHT TURNING RADIUS RT				
RT 1-2	110'	29.61'	6+02.55	131.46' RT
RT 2-3	55'	43.50'	6+15.35	78.33' RT
RT 3-4	110'	38.24'	5+67.26	105.56' RT



STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 NH-1728(900)E
 PIN 17285.00
 HIGHWAY PLANS

DATE	SIGNATURE	P.E. NUMBER	DATE
JUN 2011	E. A. KRITZ		

PROJ. MANAGER: P. MACDONALD
 CHECKED/REVIEWED: E. A. KRITZ
 DESIGNED/DETAILS: E. A. KRITZ
 REVISIONS: 1, 2, 3, 4

BARING ROUTES 1/9 & 191 PLANS

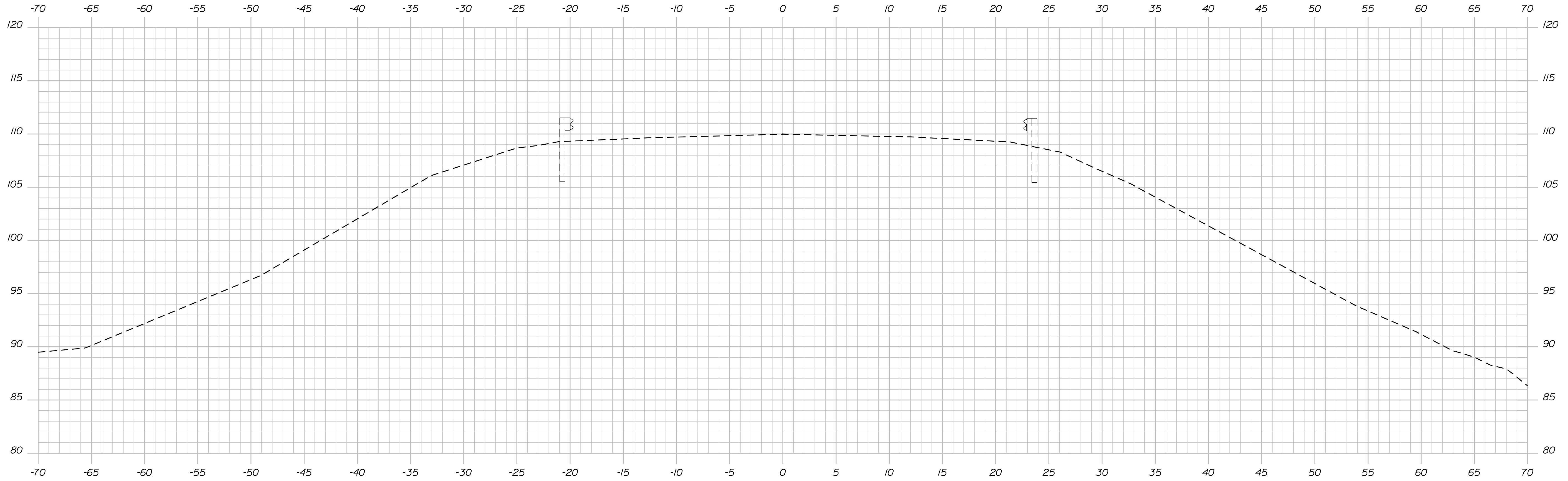
SHEET NUMBER 7 OF 25

Date: 2/22/2012

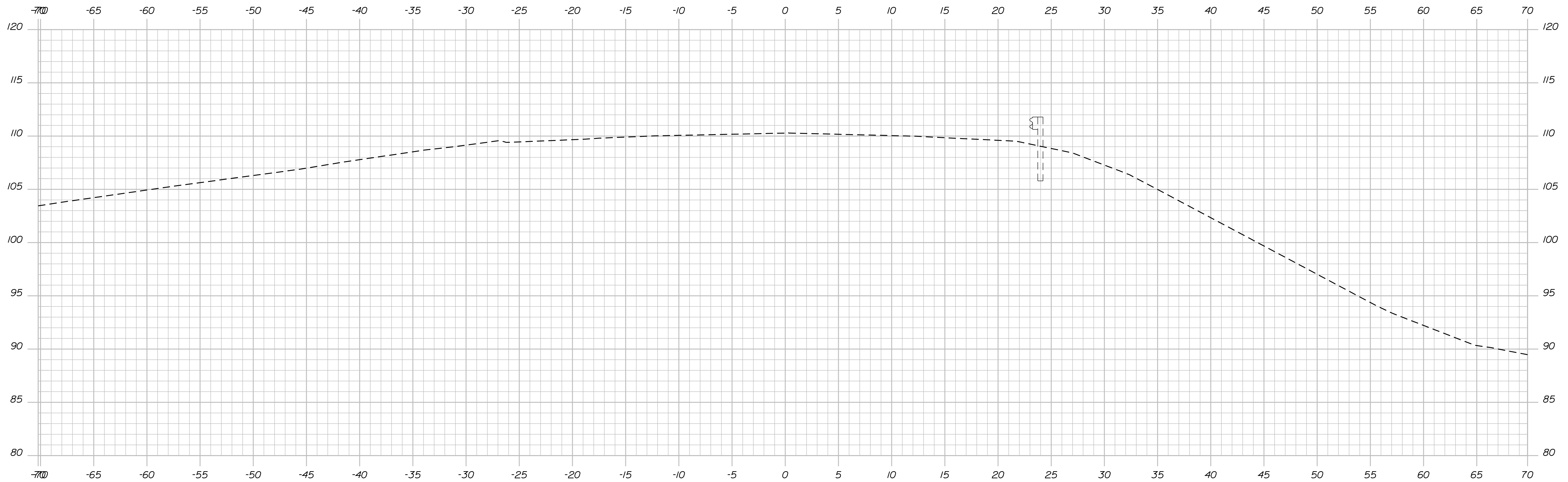
Username: rhobe.moulton

Division: HIGHWAY

Filename: ... \msta\010_Xsect_11+53_001.dgn



12+50.00



11+53.80

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

NH-1728(900)E

PIN
17285.00
HIGHWAY PLANS

SIGNATURE

P.E. NUMBER

DATE

DATE

BY

PROJ. MANAGER

DESIGN-DETAILED
CHECKED-REVIEWED
DESIGNS-DETAILED
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

E. A. KRITZ

P. MADONALD

JUN 2011

E. A. KRITZ

JUN 2011

E. A. KRITZ

JUN 2011

E. A. KRITZ

JUN 2011

E. A. KRITZ

JUN 2011

E. A. KRITZ

JUN 2011

E. A. KRITZ

JUN 2011

BARING
ROUTES 1\9 & 191

CROSS SECTIONS

SHEET NUMBER

10

OF 25

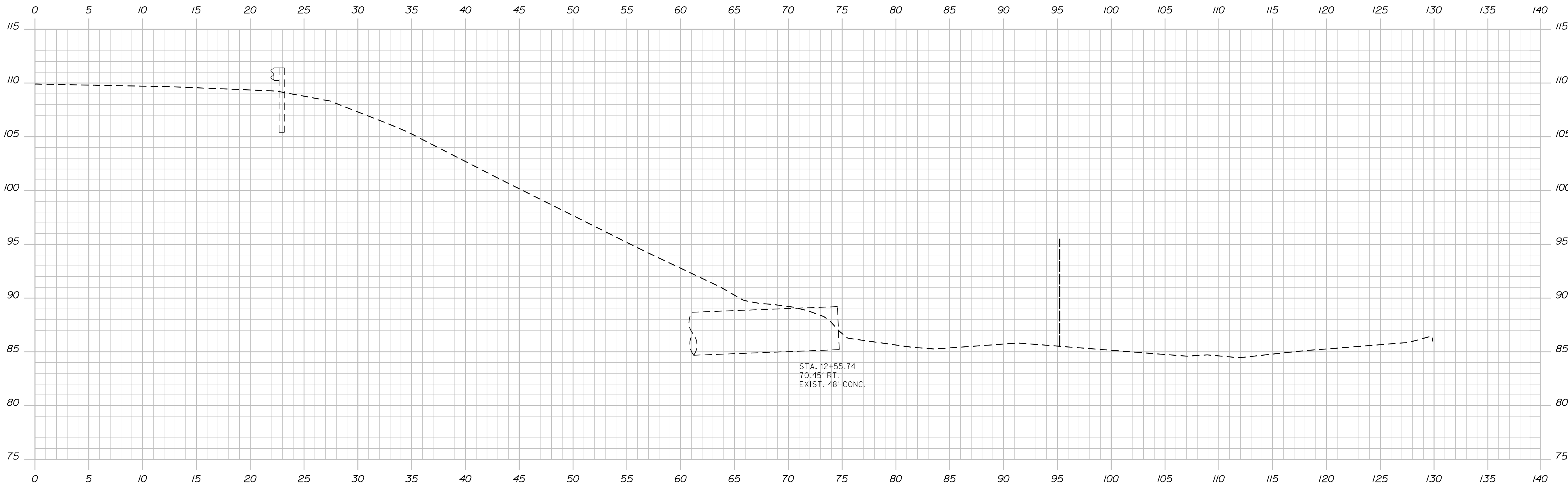
Sta. 11+53.80 to Sta. 12+50.00

Date: 2/22/2012

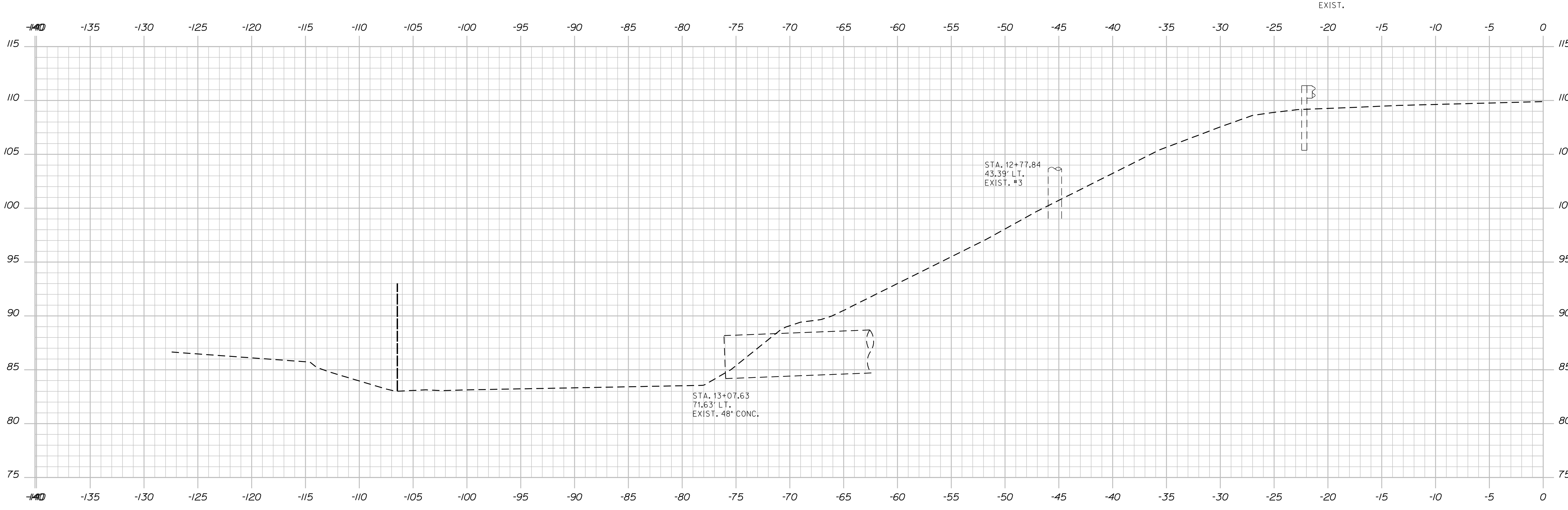
Username: rhobe.moulton

Division: HIGHWAY

Filename: ... \msta\011_xsect_12-81-002.dgn



12+81.25 (+1)



12+81.25

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
NH-1728(900)E
PIN 17285.00
HIGHWAY PLANS

PROJ. MANAGER	BY	DATE
P. MACDONALD	E. A. KRITZ	JUN 2011
DESIGN/DETAILED	E. A. KRITZ	JUN 2011
CHECKED/REVIEWED		
DESIGN/DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

BARING
ROUTES 1\9 & 191
CROSS SECTIONS

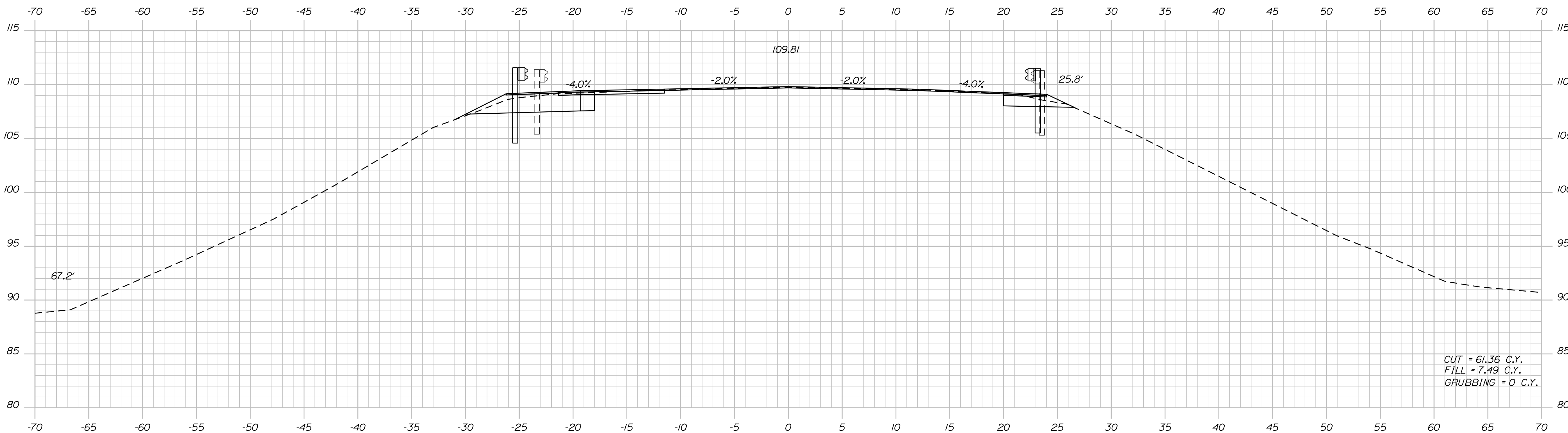
SHEET NUMBER
11
OF 25

Date: 2/22/2012

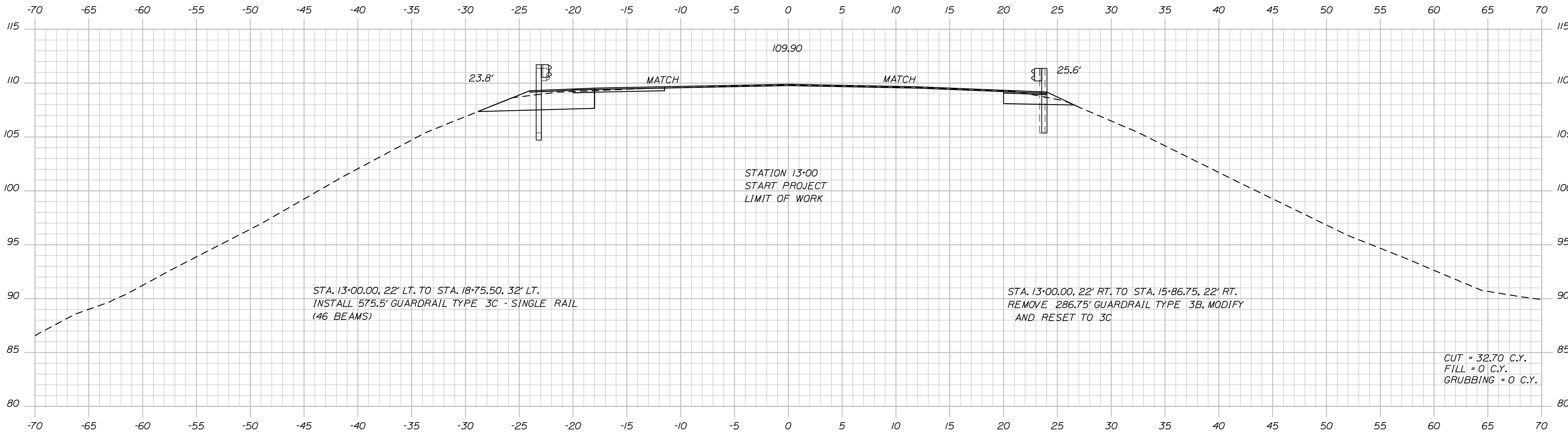
Username: rhobe.moulton

Division: HIGHWAY

Filename: ... \msta\012_Xsect_13+00_003.dgn



CUT = 61.36 C.Y.
 FILL = 7.49 C.Y.
 GRUBBING = 0 C.Y.



STA. 13+00.00, 22' LT. TO STA. 18+75.50, 32' LT.
 INSTALL 575.5' GUARDRAIL TYPE 3C - SINGLE RAIL
 (46 BEAMS)

STATION 13+00
 START PROJECT
 LIMIT OF WORK

STA. 13+00.00, 22' RT. TO STA. 15+86.75, 22' RT.
 REMOVE 286.75' GUARDRAIL TYPE 3B, MODIFY
 AND RESET TO 3C

CUT = 32.70 C.Y.
 FILL = 0 C.Y.
 GRUBBING = 0 C.Y.

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 NH-1728(900)E
 PIN 17285.00
 HIGHWAY PLANS

PROJ. MANAGER	BY	DATE
P. MADONALD	E. A. KRITZ	JUN 2011
CHECKED/REVIEWED	E. A. KRITZ	
DESIGNED/DETAILED		
DESIGNED/DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

BARING
 ROUTES 1\9 & 191
 CROSS SECTIONS

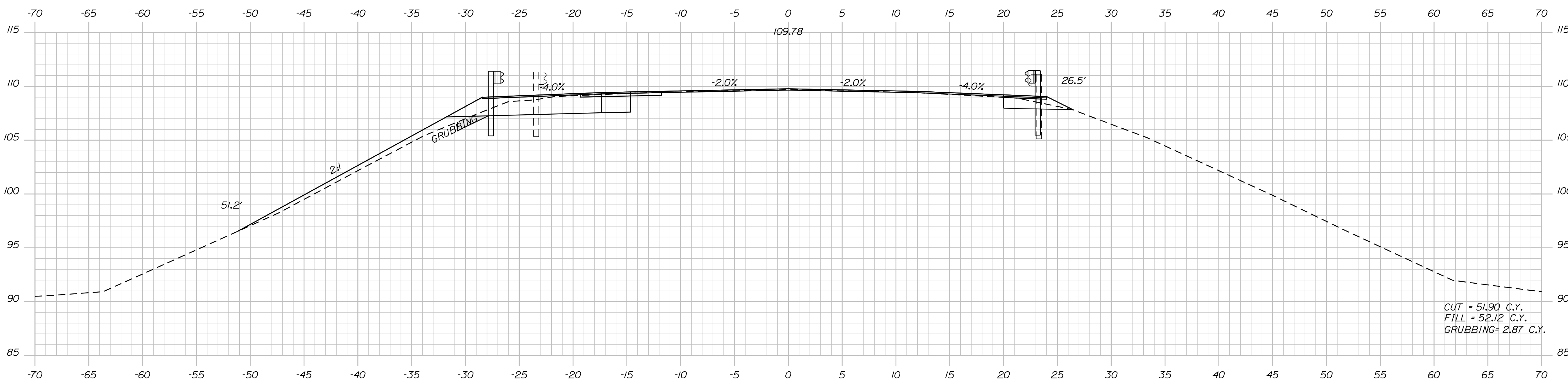
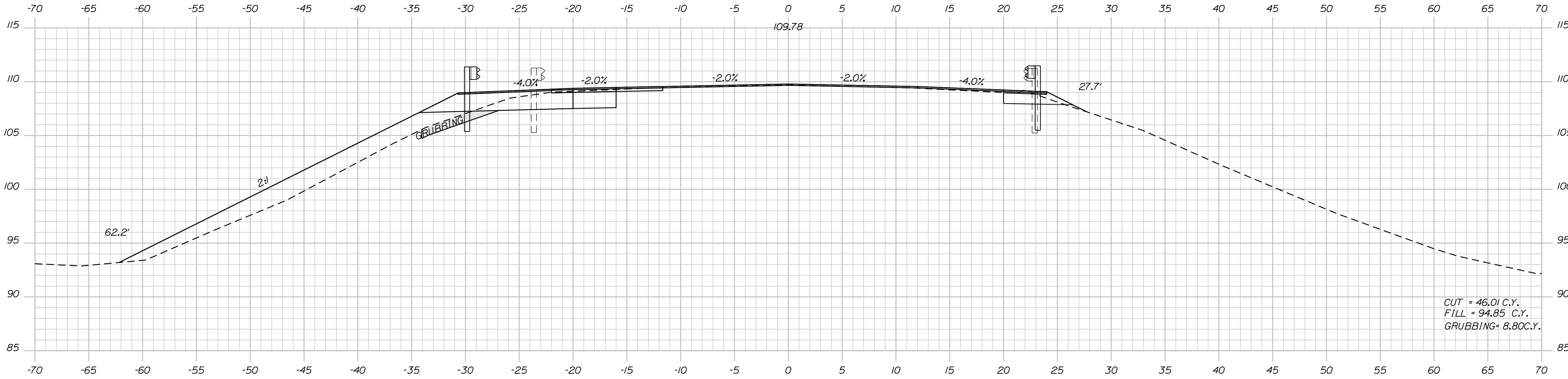
SHEET NUMBER
 12
 OF 25

Date: 2/22/2012

Username: rhobe.moulton

Division: HIGHWAY

Filename: ... \mstc\013_Xsect_14+00_004.dgn



STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 NH-1728(900)E
 PIN 17285.00
 HIGHWAY PLANS

DESIGNED	CHECKED	DATE	SIGNATURE
E. A. KRITZ	E. A. KRITZ	JUN 2011	

DESIGNED	CHECKED	DATE	P.E. NUMBER

REVISIONS	DATE	DESCRIPTION
1		
2		
3		
4		

BARING
 ROUTES 1/9 & 191
 CROSS SECTIONS

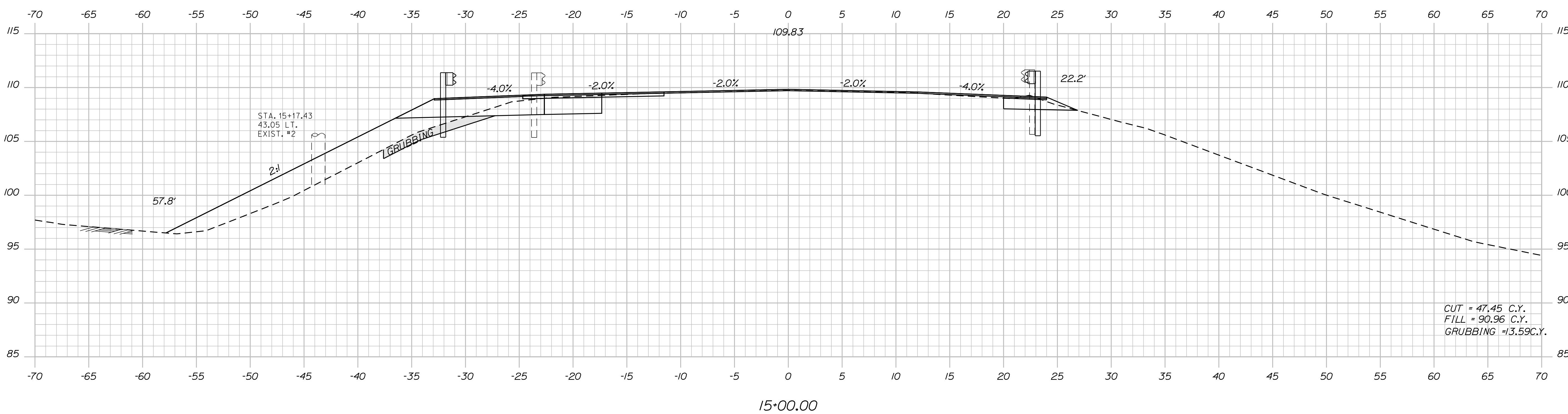
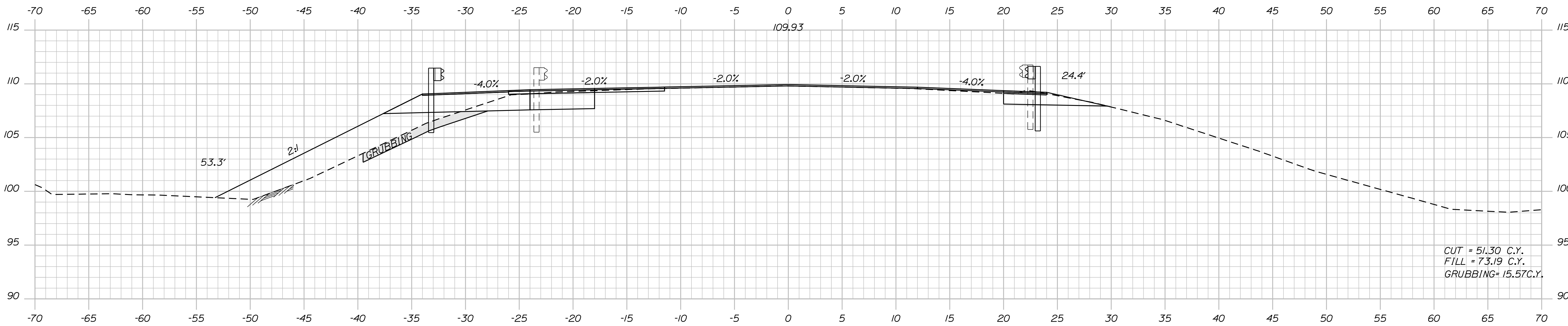
SHEET NUMBER
13
 OF 25

Date: 2/22/2012

Username: rhobe.moulton

Division: HIGHWAY

Filename: ... \msta\014_Xsect_15+00_005.dgn



STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 NH-1728(900)E
 PIN 17285.00
 HIGHWAY PLANS

PROJ. MANAGER	DESIGN DETAILED	CHECKED/REVIEWED	BY	DATE
P. MACDONALD	E. A. KRITZ	E. A. KRITZ	E. A. KRITZ	JUN 2011
	DESIGNS DETAILED			
	REVISIONS 1			
	REVISIONS 2			
	REVISIONS 3			
	REVISIONS 4			
	FIELD CHANGES			

BARING
 ROUTES 1/9 & 191
 CROSS SECTIONS

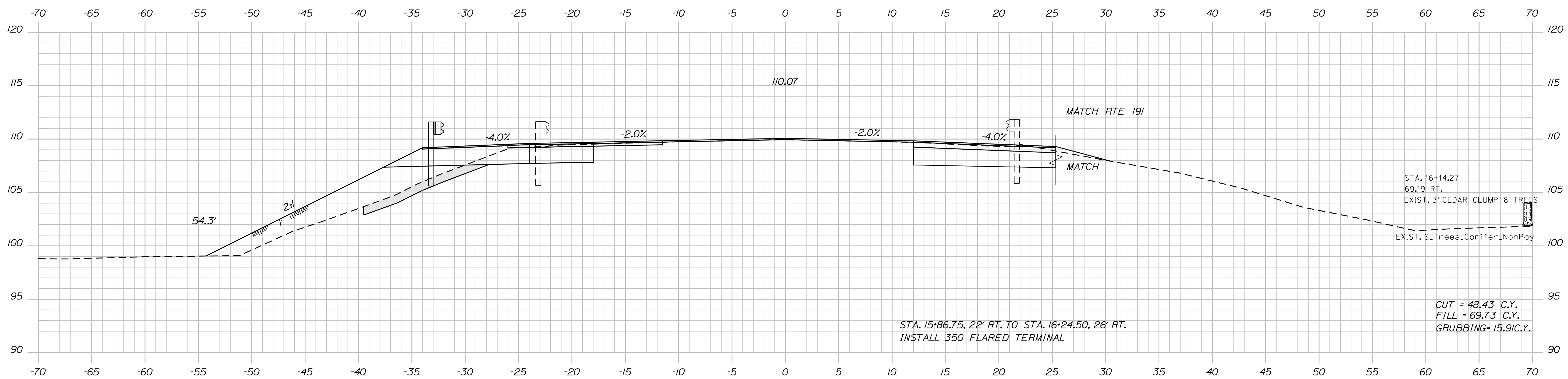
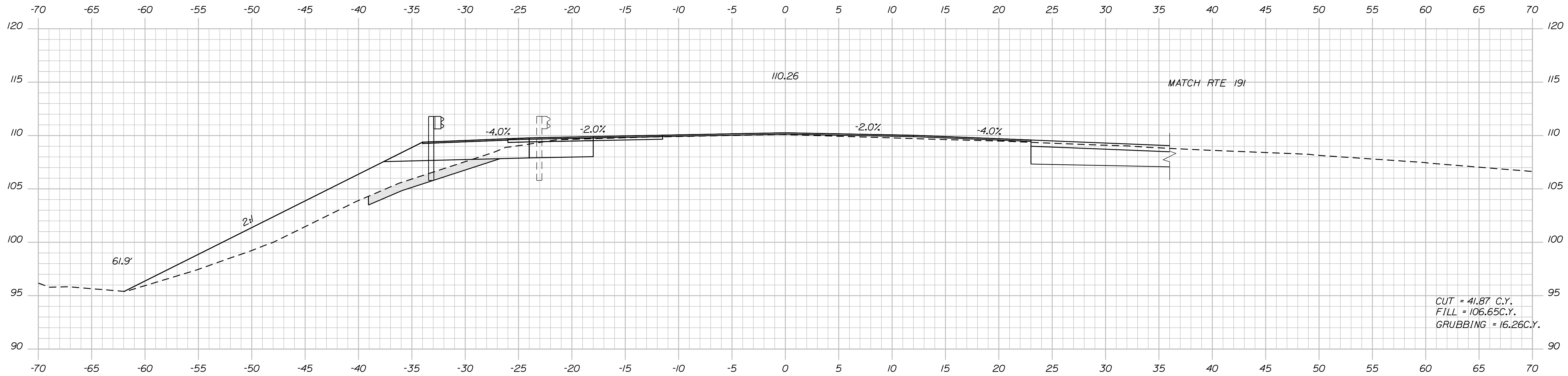
SHEET NUMBER
 14
 OF 25

Date: 2/22/2012

Username: rhobe.moulton

Division: HIGHWAY

Filename: ... \msta\015_Xsect_16+00_006.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
NH-1728(900)E
PIN 17285.00
HIGHWAY PLANS

PROJ. MANAGER	P. MADONALD	DATE	JUN 2011
CHECKED-REVIEWED	E. A. KRITZ	BY	E. A. KRITZ
DESIGNS DET AILED		DESIGNS DET AILED	
REVISIONS 1		REVISIONS 1	
REVISIONS 2		REVISIONS 2	
REVISIONS 3		REVISIONS 3	
REVISIONS 4		REVISIONS 4	
FIELD CHANGES		FIELD CHANGES	
		SIGNATURE	
		P.E. NUMBER	
		DATE	

BARING
ROUTES 1/9 & 191
CROSS SECTIONS

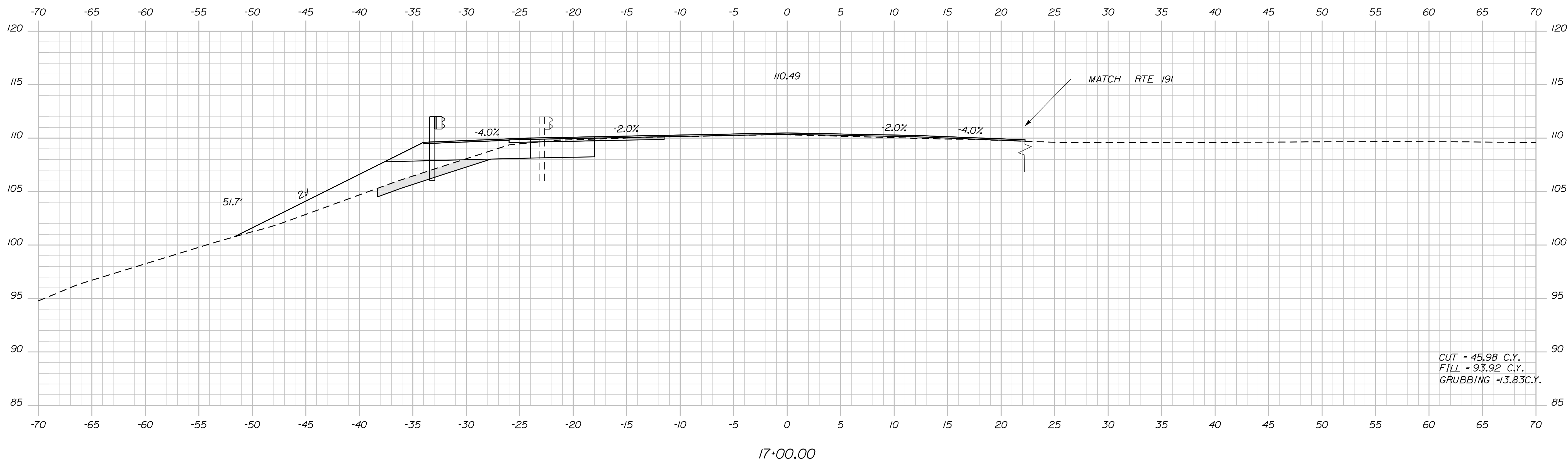
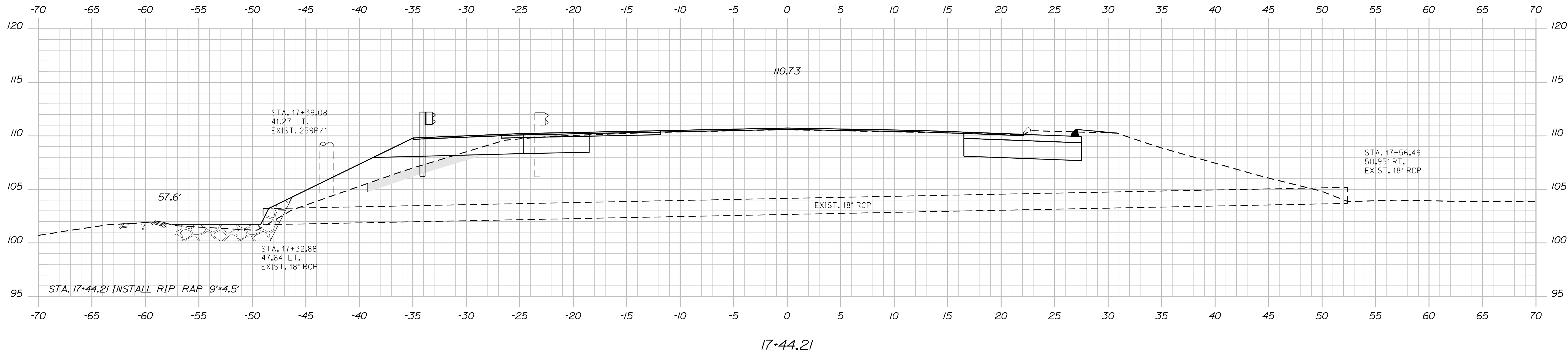
SHEET NUMBER
15
OF 25

Date: 2/22/2012

Username: rhobe.moulton

Division: HIGHWAY

Filename: ... \msta\016_xsect_17+00_007.dgn



CUT = 45.98 C.Y.
 FILL = 93.92 C.Y.
 GRUBBING = 13.83 C.Y.

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 NH-1728(900)E
 PIN 17285.00
 HIGHWAY PLANS

PROJ. MANAGER	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
P. MADDONALI	E. A. KRITZ	JUN 2011			
DESIGN DETAILED					
CHECKED-REVIEWED					
DESIGNS DETAILED					
DESIGNS DETAILED					
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

BARING
 ROUTES 1/9 & 191
 CROSS SECTIONS

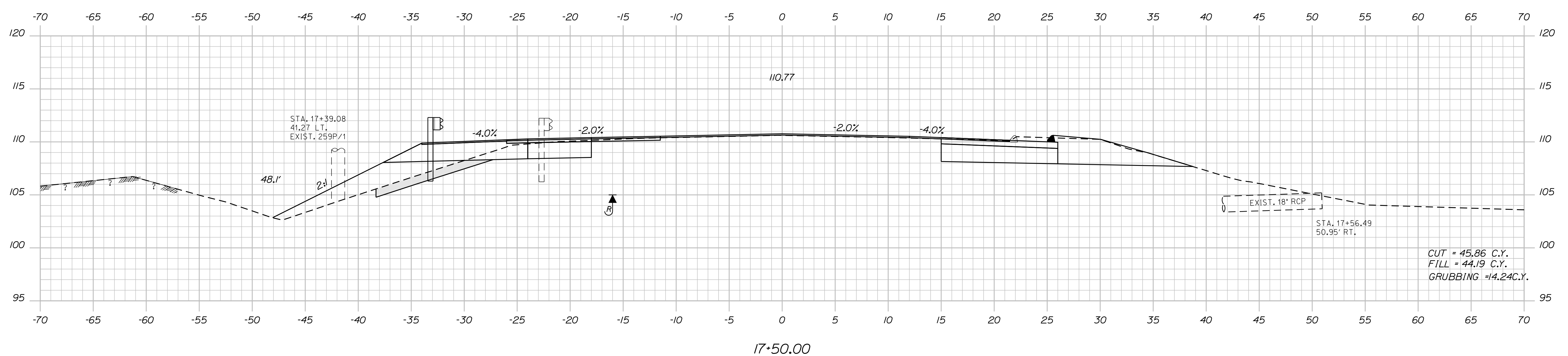
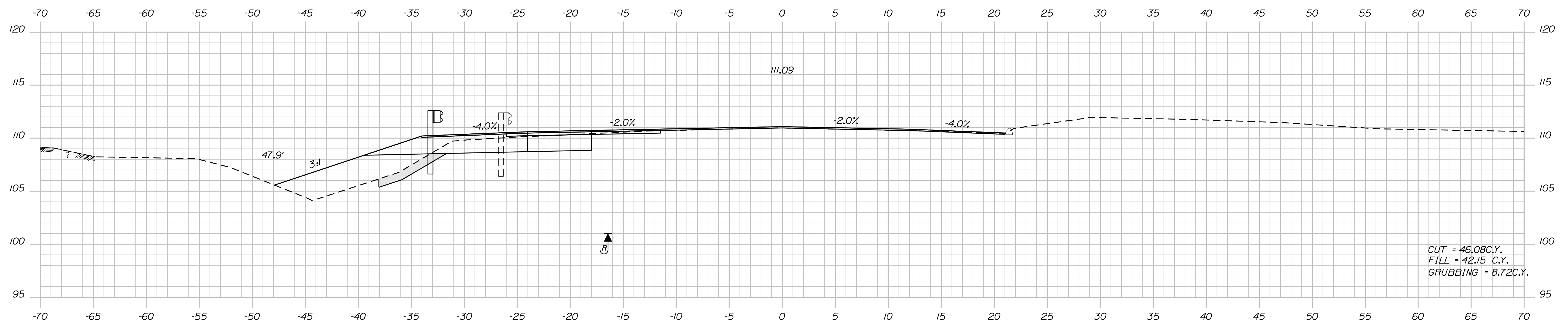
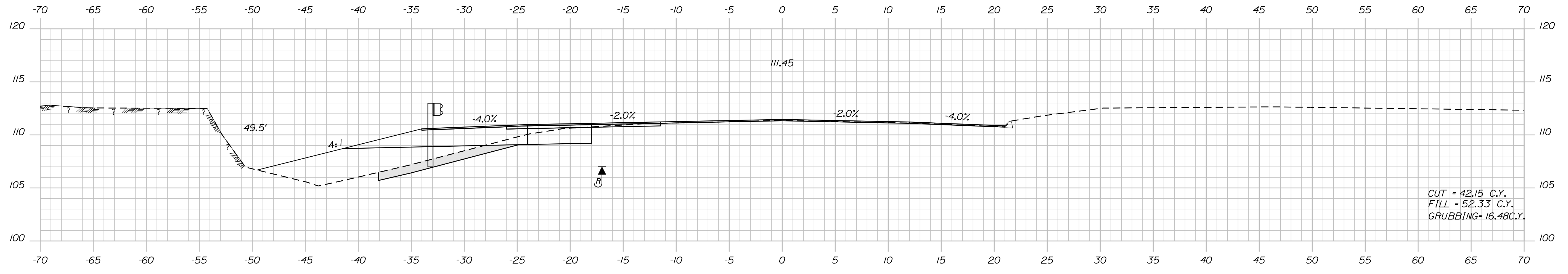
SHEET NUMBER
16
 OF 25

Date: 2/22/2012

Username: rhobe.moulton

Division: HIGHWAY

Filename: ... \msta\017_Xsect_17+50_008.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
NH-1728(900)E
PIN 17285.00
HIGHWAY PLANS

PROJ. MANAGER	DATE	BY	SIGNATURE
P. MADDONALI	JUN 2011	E. A. KRITZ	
CHECKED-REVIEWED			
DESIGN DETAILED			
DESIGN REVIEWED			
DESIGN DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

BARING
ROUTES 1/9 & 191
CROSS SECTIONS

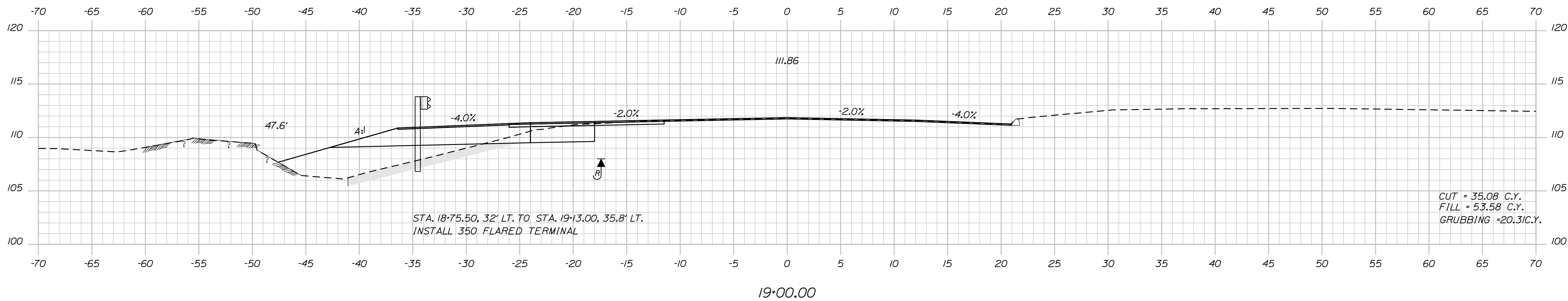
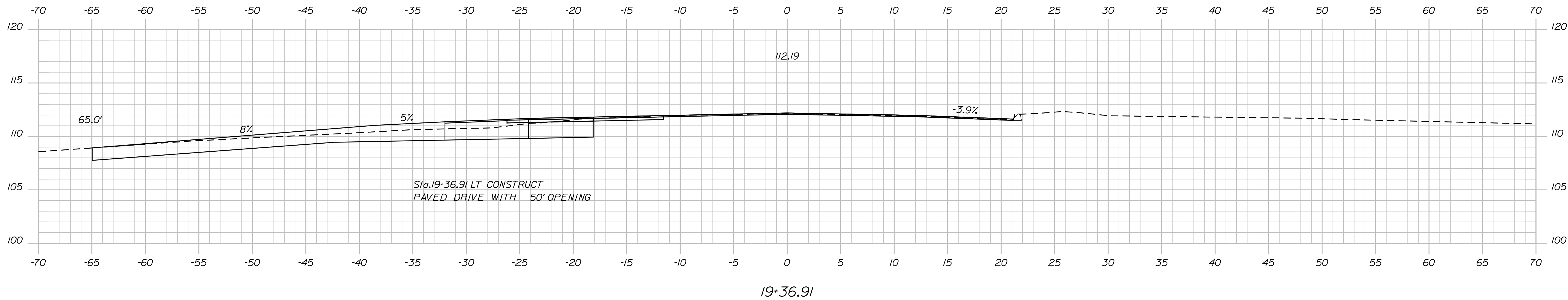
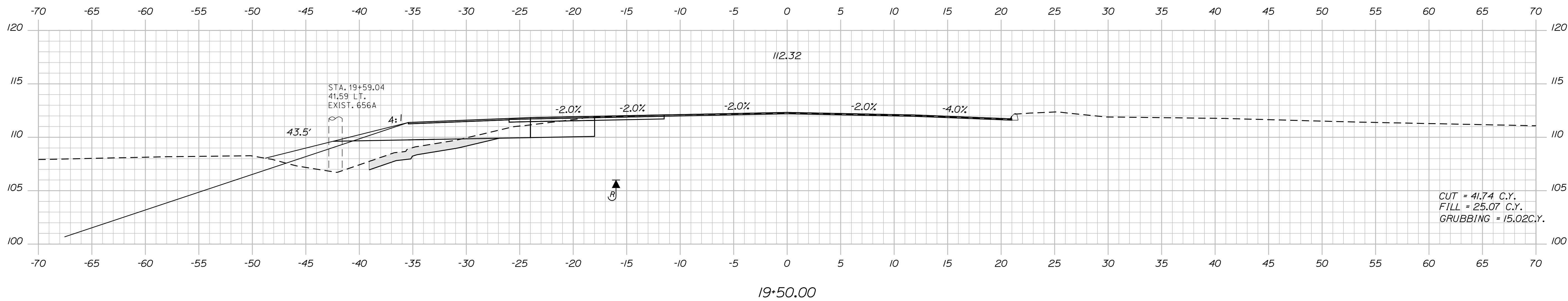
SHEET NUMBER
17
OF 25

Date: 2/22/2012

Username: rhobe.moulton

Division: HIGHWAY

Filename: ... \msta\018_Xsect_19-00_009.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
NH-1728(900)E
PIN 17285.00
HIGHWAY PLANS

SIGNATURE	P.E. NUMBER	DATE

PROJ. MANAGER	BY	DATE
P. MADONALD	E. A. KRITZ	JUN 2011

BARING
ROUTES 1/9 & 191
CROSS SECTIONS

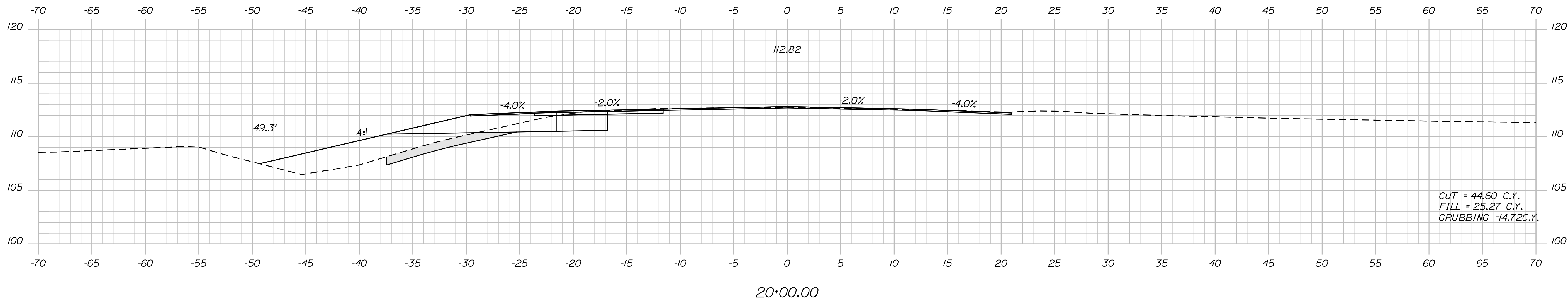
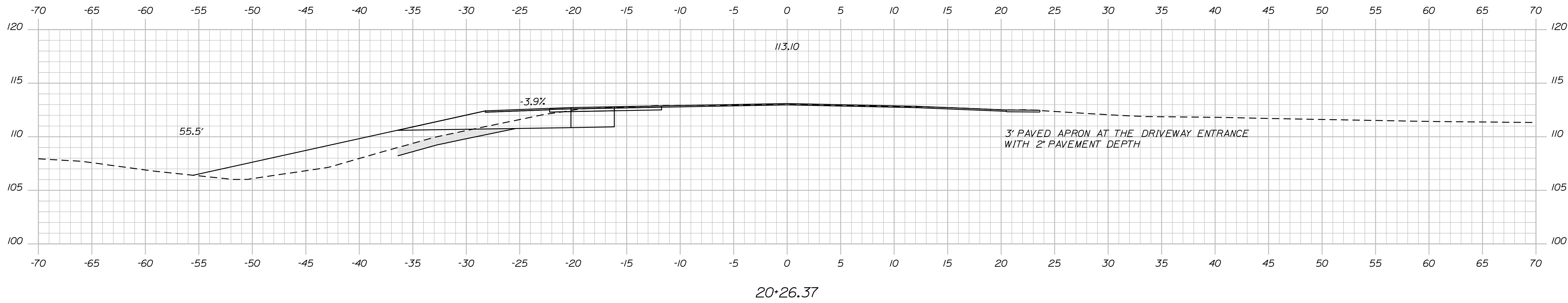
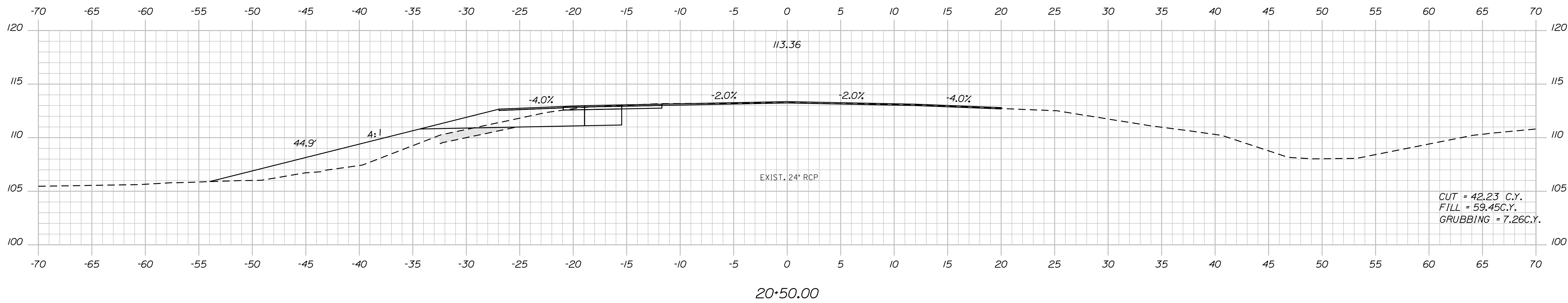
SHEET NUMBER
18
OF 25

Date: 2/22/2012

Username: rhobe.moulton

Division: HIGHWAY

Filename: ... \msta\019_Xsect\20+00_010.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
NH-1728(900)E
PIN 17285.00
HIGHWAY PLANS

PROJ. MANAGER	BY	DATE
P. MADONALD	E. A. KRITZ	JUN 2011

DESIGN DETAILED	CHECKED/REVIEWED	DESIGN DETAILED	DESIGN DETAILED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
	E. A. KRITZ							

SIGNATURE	P.E. NUMBER	DATE

BARING
ROUTES 1/9 & 191
CROSS SECTIONS

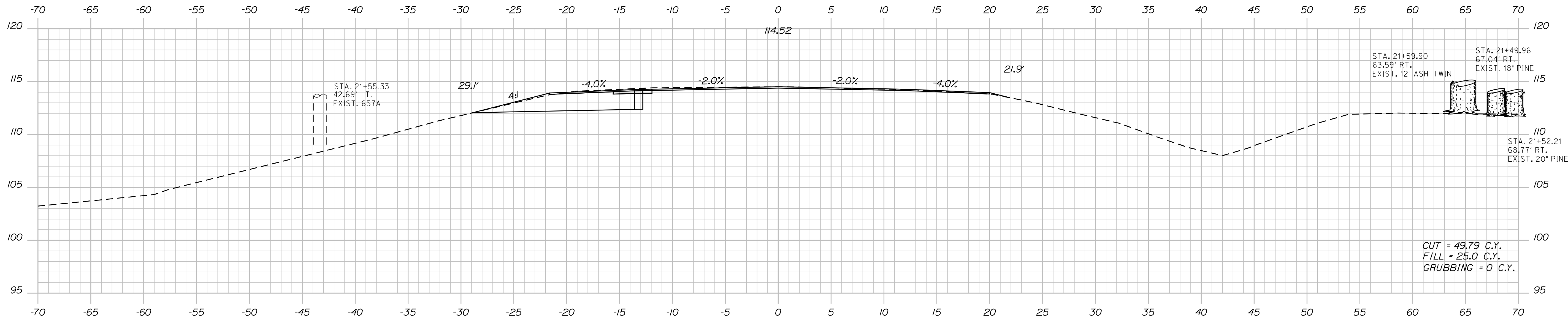
SHEET NUMBER
19
OF 25

Date: 2/22/2012

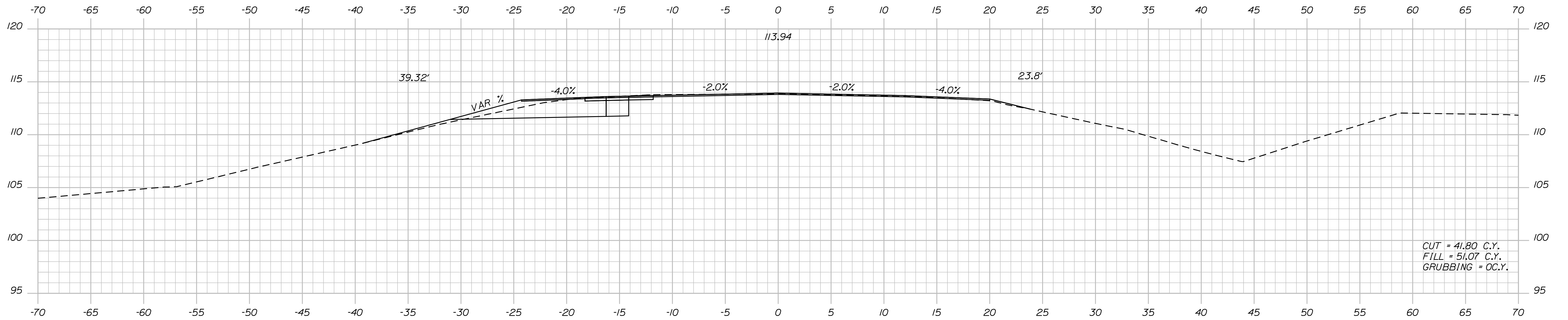
Username: rhobe.moulton

Division: HIGHWAY

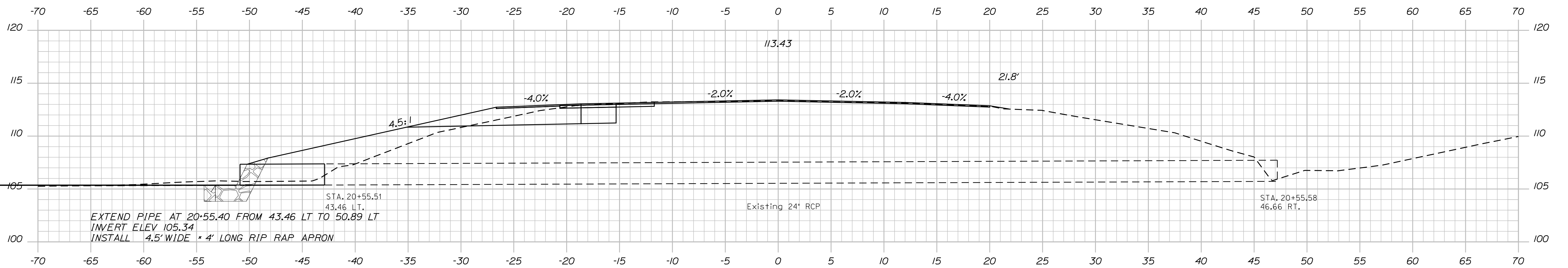
Filename: ... \msto\020_Xsect_20+55_01.dgn



21+50.00



21+00.00



20+55.40

STA. 21+59.90
63.59' RT.
EXIST. 12" ASH TWIN

STA. 21+49.96
67.04' RT.
EXIST. 18" PINE

STA. 21+52.21
68.77' RT.
EXIST. 20" PINE

CUT = 49.79 C.Y.
FILL = 25.0 C.Y.
GRUBBING = 0 C.Y.

CUT = 41.80 C.Y.
FILL = 51.07 C.Y.
GRUBBING = 0 C.Y.

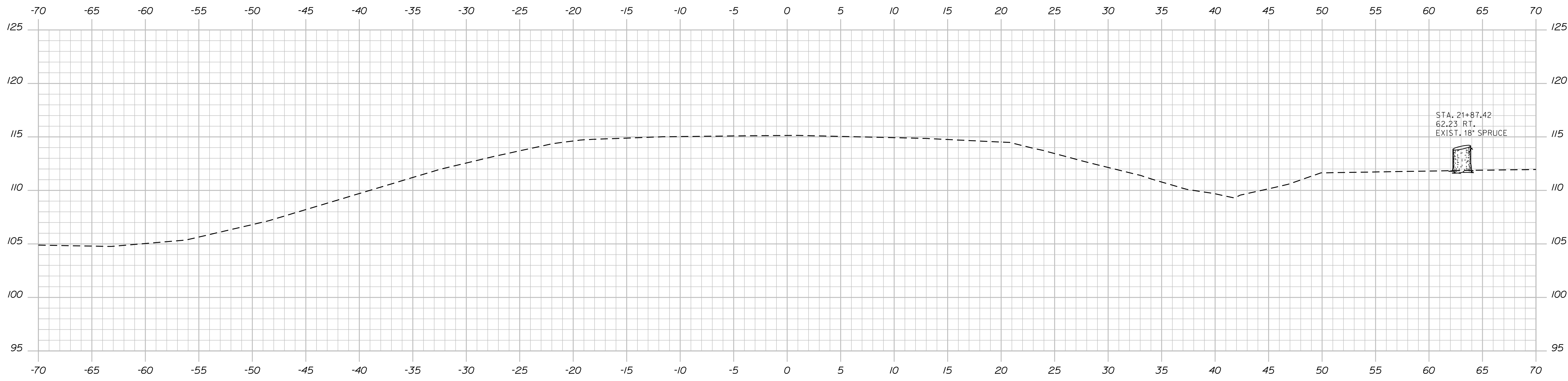
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		NH-1728(900)E		PIN 17285.00		HIGHWAY PLANS	
PROJ. MANAGER		BY		DATE		SIGNATURE		P.E. NUMBER	
P. MADONALD		E. A. KRITZ		JUN 2011		[Signature]		[P.E. Number]	
CHECKED-REVIEWED		DESIGN DETAILED		DESIGN REVIEWED		DESIGN DETAILED		REVISIONS 1	
[Signature]		[Signature]		[Signature]		[Signature]		REVISIONS 2	
[Signature]		[Signature]		[Signature]		[Signature]		REVISIONS 3	
[Signature]		[Signature]		[Signature]		[Signature]		REVISIONS 4	
[Signature]		[Signature]		[Signature]		[Signature]		FIELD CHANGES	
BARING ROUTES 1/9 & 191					CROSS SECTIONS				
SHEET NUMBER					20				
					OF 25				

Date: 2/22/2012

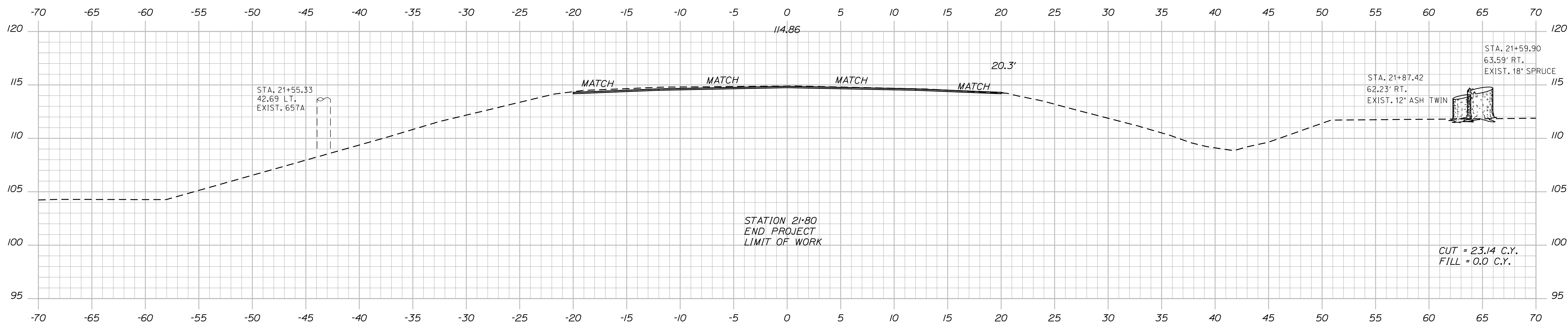
Username: rhobe.moulton

Division: HIGHWAY

Filename: ... \msta\021-Xsect_21+80_012.dgn



22+00.00



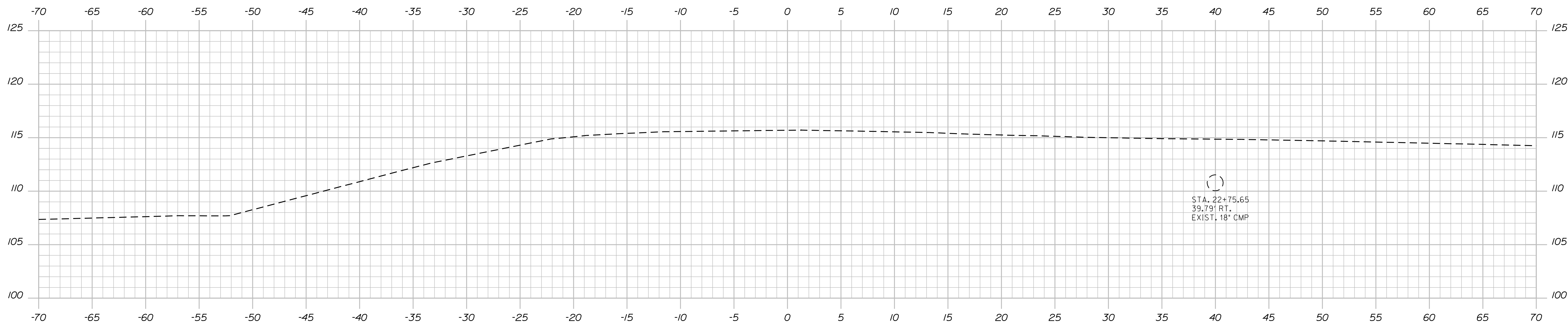
21+80.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
NH-1728(900)E
PIN
17285.00
HIGHWAY PLANS

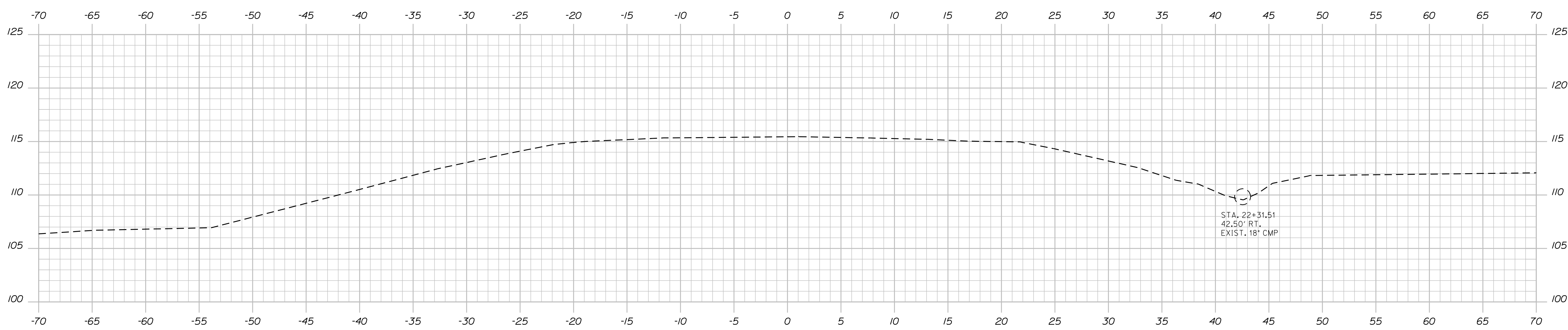
PROJ. MANAGER	P. MADDONALD	DATE	JUN 2011
CHECKED-REVIEWED	E. A. KRITZ	BY	E. A. KRITZ
DESIGNS DET AILED		SIGNATURE	
REVISIONS 1		P.E. NUMBER	
REVISIONS 2		DATE	
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

BARING
ROUTES 1/9 & 191
CROSS SECTIONS

SHEET NUMBER
21
OF 25



22+57.70



22+30.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
NH-1728(900)E
PIN 17285.00
HIGHWAY PLANS

PROJ. MANAGER	P. MADONALD	BY	E. A. KRITZ	DATE	JUN 2011
CHECKED-REVIEWED	E. A. KRITZ	SIGNATURE			
DESIGNS DETAILED		P.E. NUMBER			
DESIGNS DETAILED		DATE			
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

BARING
ROUTES 1\9 & 191
CROSS SECTIONS

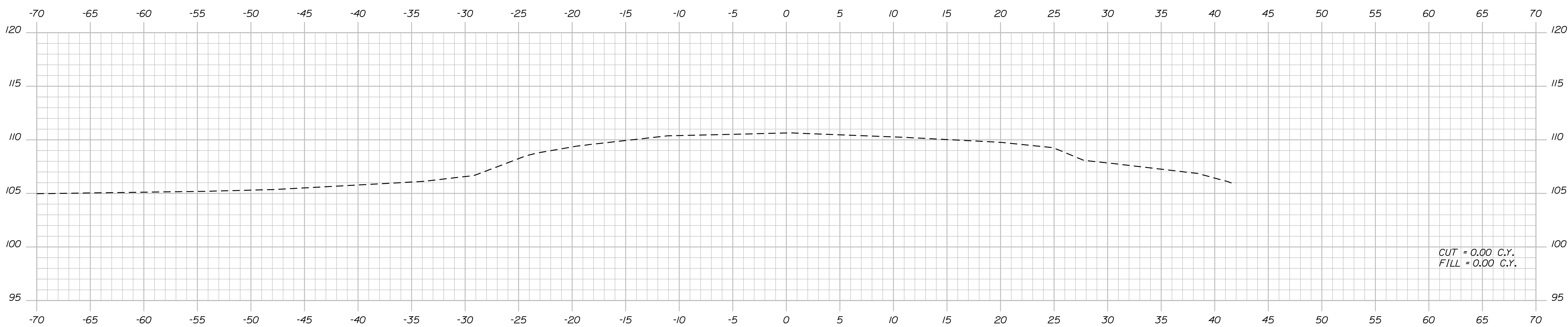
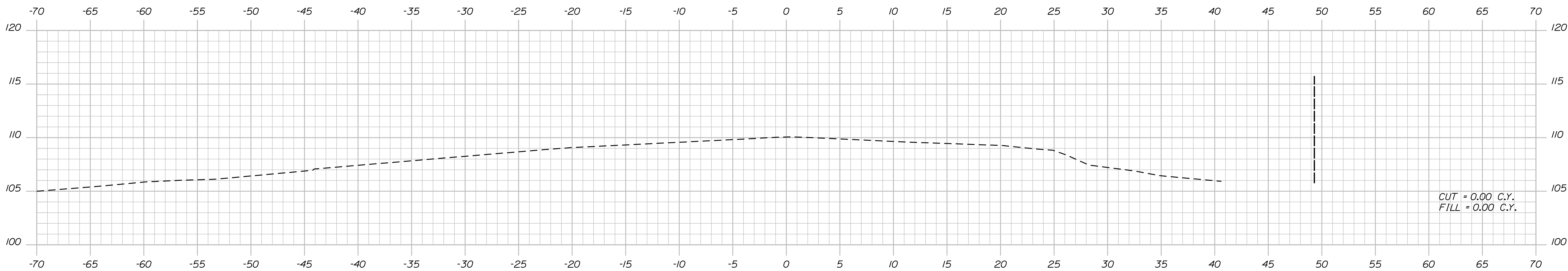
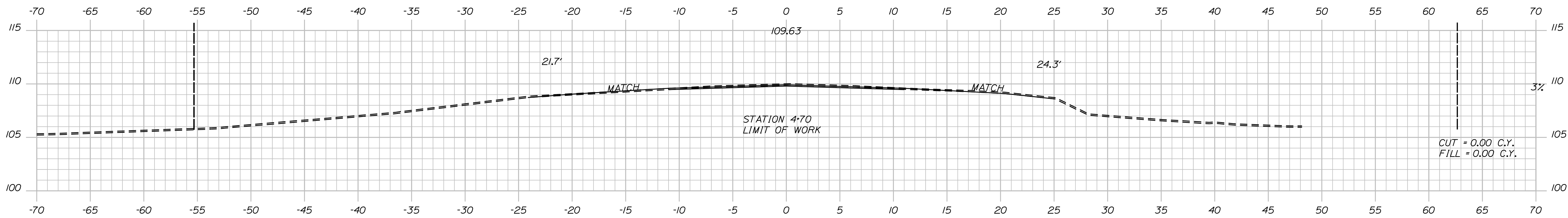
SHEET NUMBER
22
OF 25

Date: 2/22/2012

Username: rhobe.moulton

Division: HIGHWAY

Filename: ... \msto\023_Xsect_4+00_014.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
NH-1728(900)E
PIN 17285.00
HIGHWAY PLANS

DESIGN DETAILED	E. A. KRITZ	DATE	JUN 2011
CHECKED/REVIEWED	E. A. KRITZ	BY	E. A. KRITZ
DESIGNS DET AILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PROJ. MANAGER	P. MADDONALD
CHECKED/REVIEWED	E. A. KRITZ
DESIGNS DET AILED	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

BARING
ROUTES 1\9 & 191
CROSS SECTIONS

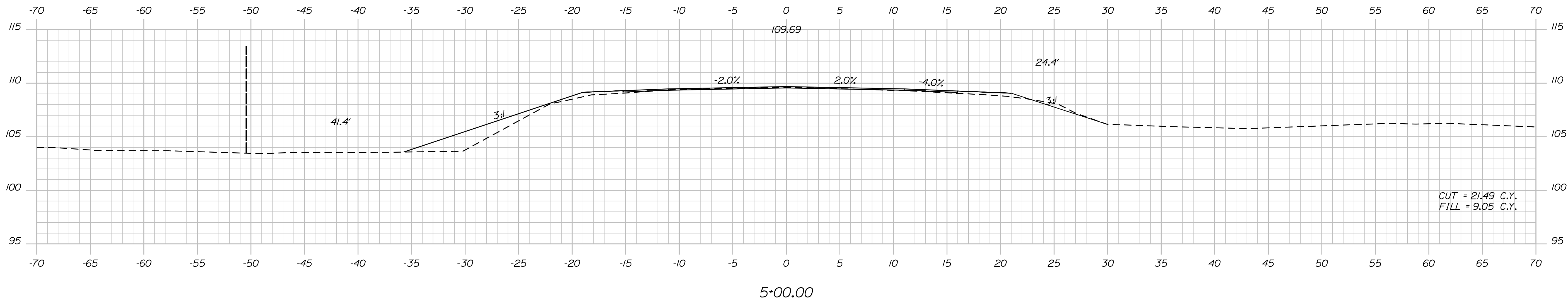
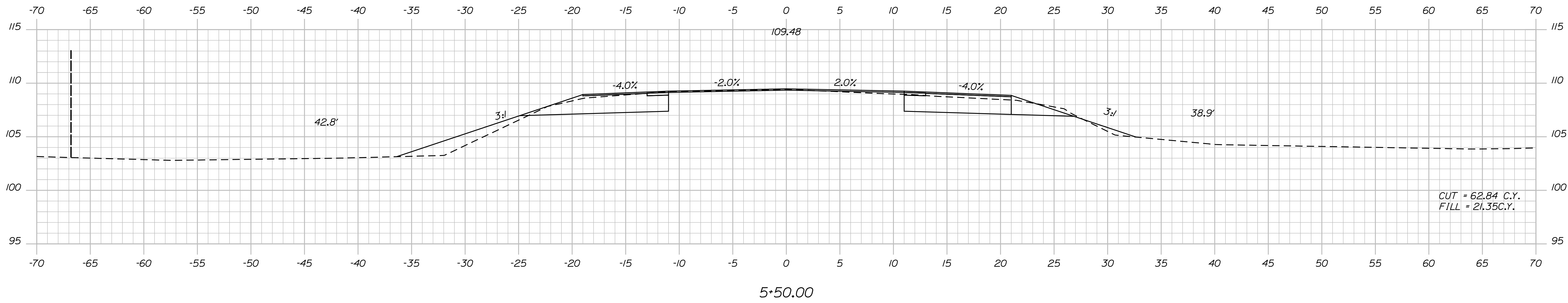
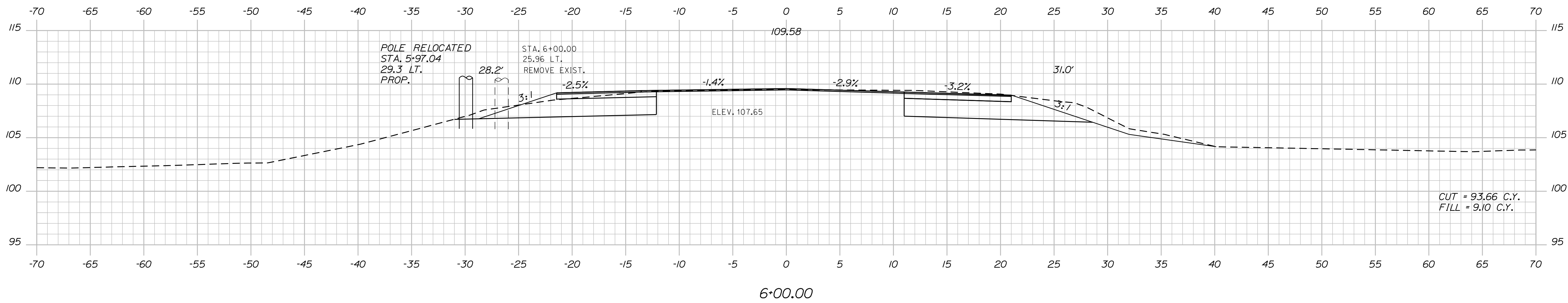
SHEET NUMBER
23
OF 25

Date: 2/22/2012

Username: rhobe.moulton

Division: HIGHWAY

Filename: ... \msto\024_Xsect_5+00_015.dgn



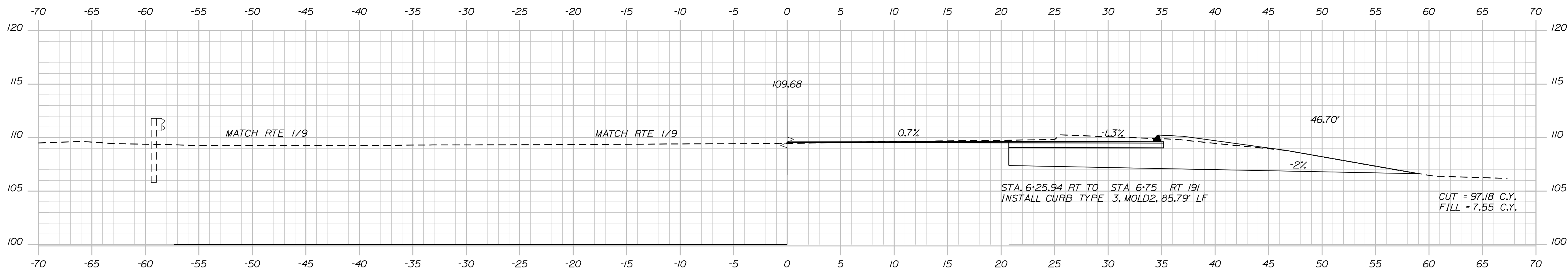
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
NH-1728(900)E
PIN 17285.00
HIGHWAY PLANS

DATE	SIGNATURE	P.E. NUMBER	DATE
JUN 2011			

PROJ. MANAGER	BY	DATE
P. MADONALD	E. A. KRITZ	JUN 2011

BARING
ROUTES 1/9 & 191
CROSS SECTIONS

SHEET NUMBER
24
OF 25



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
NH-1728(900)E
PIN 17285.00
HIGHWAY PLANS

PROJ. MANAGER	BY	DATE
P. MACDONALD	E. A. KRITZ	JUN 2011
CHECKED-REVIEWED		SIGNATURE
DESIGNS DETAILED		P.E. NUMBER
REVISIONS 1		DATE
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

BARING
ROUTES 1/9 & 191
CROSS SECTIONS

SHEET NUMBER
25
OF 25